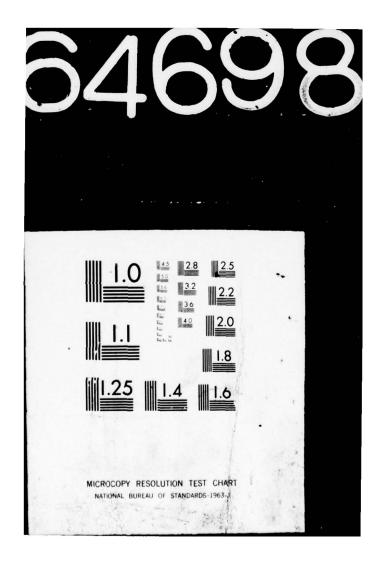
CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 13/2 SYSTEMS APPROACH TO LIFE-CYCLE DESIGN OF PAVEMENTS. VOLUME III.--ETC(U) AD-A064 698 JAN 79 E S LINDOW CERL-TR-M-253-VOI -3 NL UNCLASSIFIED OF 5 AD A084698



construction engineering research laboratory



TECHNICAL REPORT M-253 January 1979

SYSTEMS APPROACH TO LIFE-CYCLE DESIGN OF PAVEMENTS ADA 0 64698 **VOLUME III: LIFE2 PROGRAM LISTING** by E. S. Lindow DDC FILE COPY THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DEC CONTAINED A STORIFICANT NUMBER OF FAGES WHICH DO NOT REPRODUCE LEGIBLY. 79 02 14 049

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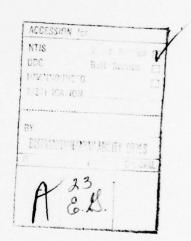
.... -. FAUE(mine Date Directo) Block 20 continued. frost protection requirements in addition to maintenance costs. The resulting combinations of design schemes and maintenance strategies are ranked by total cost over the design life of the pavement. Volume I is the LIFE2 Users Manual, Volume II is the LIFE2 System Documentation, and Volume III is the LIFE2 Program Listing.

FOREWORD

This work was conducted as part of the RDT&E Army Program 6.37.34A, Project 4A763734DT08, "Military Construction Systems Development," Task 01, "Military Airfield Facilities," Work Unit 001, "Systems Approach to Life-Cycle Design of Pavements." The Technical Monitor was Mr. E. Dudka, DAEN-MPE-I, Advanced Technology Branch, Engineering Division, Military Programs, Office of the Chief of Engineers.

The work was conducted by the Engineering and Materials Division (EM), U.S. Army Construction Engineering Research Laboratory (CERL). The CERL principal investigator was Mr. E. S. Lindow. The LIFE1 computer program was developed by Drs. P. F. McManus and E. L. Marvin. Mr. J. J. Brown was responsible for programming and operation of LIFE2.

Dr. G. R. Williamson is Chief of EM. COL J. E. Hays is Commander and Director of CERL, and Dr. L. R. Shaffer is Technical Director.



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SYSTEMS APPROACH TO LIFE-CYCLE DESIGN OF PAVEMENTS VOLUME III--LIFE2 PROGRAM LISTING

1 INTRODUCTION

Background

LIFE2 is a digital computer program devised as an engineering aid to pavement designers and managers. The program includes analytical procedures for designing rigid and flexible pavements and for evaluating various maintenance and repair strategies. The resulting combinations of design schemes and maintenance strategies provide the pavement manager with life-cycle alternatives.

In the early 1970s, CERL began developing an automated system for designing airfield pavements based on life-cycle cost comparisons. The first iteration of this computer system, designated LIFE1, included procedures for (1) performing rigid flexible pavement and overlay designs for airfields, (2) analyzing costs and maintenance and repair costs on a macro scale, and (3) combining design schemes and maintenance strategies into life-cycle rankings. 1,2

Subsequently, the system was expanded to include life-cycle design of pavements for roads, streets, and other surfaced areas. This second iteration, LIFE2, also included procedures for considering maintenance costs on the basis of individual M&R activities, thereby making the system more responsive and efficient in terms of data available to the user. Frost protection design criteria were computerized and incorporated into LIFE2. In addition, since earthwork and subsurface drainage costs vary with the pavement thickness design selected, automated procedures for considering these costs were included as optional analyses for the user.

LIFE2 was field tested in 1976 at the Corps of Engineers' Fort Worth District Office. Based on results of the field test and recent updating of the pavement design criteria employed, minor modifications

2 J. Willmer, et al., User Manual for LIFE1 Computer Program, Technical Report S-28/AD774849 (CERL, January 1974).

E. Marvin and P. McManus, Life Cycle Analysis of an Airfield Pavement Facility. Unpublished Report (Construction Engineering Research Laboratory [CERL], 1972).

³ E. S. Lindow, et al., LIFE2 Users Manual, Technical Report C-59/ADA023186 (CERL, January 1976).

were made in the LIFE2 system. LIFE2 is now an implementable tool which can help pavement managers optimize expenditures by basing decisions on life-cycle costs, rather than solely on the least first cost.

Objective 0

The objective of this research is to develop and validate computeraided procedures for performing life-cycle design analysis of pavements. These procedures will help facilities select the most economical pavement objectives, based on total cost over the life span of the facility.

Approach

The computer program LIFE2 is based on Corps of Engineers pavement design methods and criteria. In amalgamating the manual procedures into an automated system, certain deviations and additions were necessary; however, for identical conditions and design lives, pavement structural thickness designs by LIFE2 will be comparable to the manual procedure.

LIFE2 is written in FORTRAN extended* for CDC 6000 series computers. It currently operates on the CDC 6600 computer and uses the NOS/BE control language. Because of the magnitude of the analytical procedures employed, the system was structured using program overlays. Figure 1 illustrates the overlay structure.

The Appendix provides the compiled listing for LIFE2. This listing includes full cross-reference maps. Table 1 is an alphabetical index of appendix page locations for all routines in the program.

Mode of Technology Transfer

The LIFE2 system was developed principally as an engineering tool for use by Corps of Engineers District Office personnel. Access to the LIFE2 program for Corps of Engineers personnel will be through the Corps' Engineering Computer Program Library (ECPL).** Figure 2 illustrates the accessing procedure. For other users, the program and relevant documentation is available from National Technical Information Service.

**ECPL is located at the U.S. Waterways Experiment Station, Vicksburg, MS.

^{*}The sole exception is the routine COMPASS which is written in COMPASS assembly language.

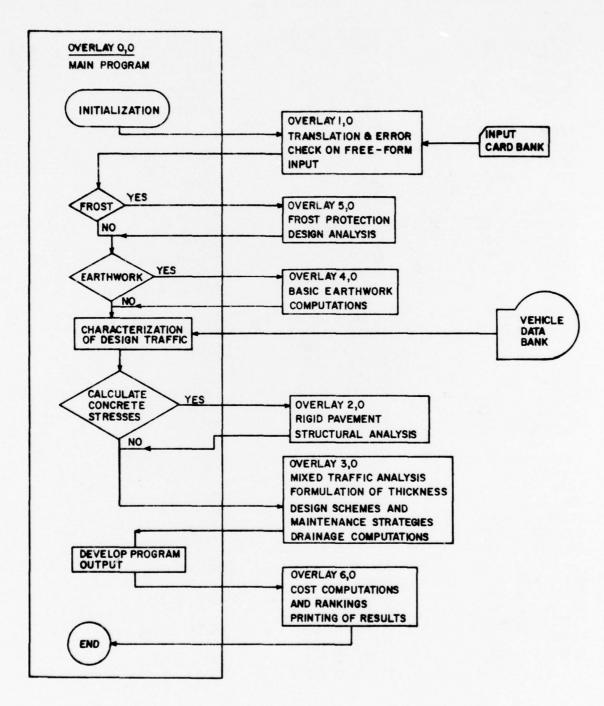


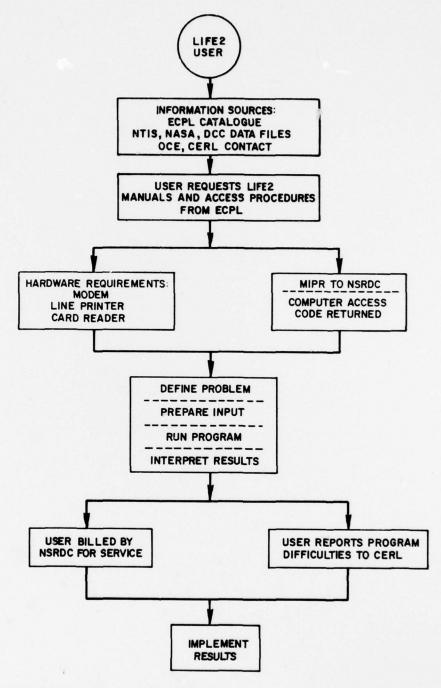
Figure 1. Framework of LIFE2 program overlays.

Table 1

Routine Index

ABS* ADATA, p 115 AUBT* ALOG* ALOG10* AMIN1*	FREEZE, p 347 FROST, p 343 GEOM, p 128 GINT, p 31 GXMT, p 191 GZCBR, p 195	PLOT4, p 324 PREVENT, p 238 PREVEN2, p 439 PRICE, p 339 PROBRD, p 140 PURIFY, p 371
BACKUP, p 107 BASIN, p 40 BBRK, p 111 BTCT, p 263 CKDATA, p 76	HINT, p 189 IHBS* IFIX* INT*	RDLINE, p 106 RDO, p 248 REMAKP* RIGID, p 241 RIGI2, p 446
COMPSUB, p 331 CONCAT, p 109 CONSEQ, p 209 COPY, p 42 COS* COV5K, p 36	INPUT, p 285 LPLOT, p 301 LSSP, p 112 LYR, p 173	RL, p 402 RODDENS, p 231 RODTHK, p 235 RSUBG, p 375 RTN25, p 370
CTABLE, p 93 CURVE, p 146	MAIN, p 12 MDATA, p 74 MIXED, p 260 MOAC, p 252 MOD*	SEARCH, p 283 SECOND* SERCST, p 270 SHIFT* SIN*
DINDEX, p 377 DRNAGE3, p 225 DRNAGE6, p 433	MTHICK, p 229 NXTPNT, p 304 OMIT, p 328	SORT, p 29 SORTA, p 295 SORTD, p 292 SORT* STPLT1, p 308
EARTH, p 272 ELEV, p 279 EOF* ERN, p 122 ERROR, p 297 EXCOST3, p 223 EXCOST6, p 430	OUTA, p 379 OUTB, p 385 OUTC, p 388 OUTLNE, p 132 OVERLAY* OVTHK, p 216	SUBPEN, p 367 TABINT, p 149 TAN* TERAREA, p 277 TLMC, 199 TLMM, p 202
FF, p 236 FINISH, p 124 FLEXBL, p 244 FLEXB2, p 442 FLOAT*	PACKET, p 44 PARSE, p 96 PAVE, p 151 PECHART, p 233 PLABAY, p 90 PLOT1, p 312	USRC, p 257 XMSTR, p 204
FLXPET, p 378	PLOT2, p 317 PLOT3, p 320	ZONE, p 336 ZPRICE, p 341

^{*}Routine is supplied by CDC computer system and is not part of the LIFE2 program listing. ${\bf Q}$



KEY:

ECPL-CORPS ENGINEERING COMPUTER PROGRAM LIBRARY
MIPR-MILITARY INTERDEPARTMENTAL PURCHASE REQUEST
NSRDC-NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER, BETHESDA, MD.
NTIS-NATIONAL TECHNICAL INFORMATION SERVICE

Figure 2. Flowchart of LIFE2 access procedure.

APPENDIX:

LIFE 2 PROGRAM LISTING

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	PROGRAM MAIN	74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6.420	11/20/60	09/02/77 13.54.00	PAG
		CALL REMARK (15HENIER OVERLAY 4) CALL OVERLAY(4HLIFE,4,0,0) CALL OFFICAY (4HLIFE,4,0,0)				
27.1	474	GRP-EG.1) GRP-EG.2) WRITE(6.17) GRP-EG.3) WRITE(6.16) GRP-EG.3) WRITE(6.19)				
180		IF (IFLEXNA-EQ.42-OK-) IFLEXNA-EQ.6) WRITE (6.22) IF (IFLEXNA-EQ.4-OR-) IFLEXNA-EQ.6) WRITE (6.23) IF (IFR GONA-EQ.1) WRITE (6.24) IF (IFR GONA-EQ.2-OR-) RIGONA-EQ.6) WRITE (6.25) IF (IFR GONA-EQ.6)				
185						
190		WATIE (6.60003) (JTF2 (1.5J)*1=1.5J)*(ML(JJ)*(NOALFI(1.5J)*(I=1.5DL)* WATIE (6.6000) MXCHALT WATIE (6.6000) MXN.JDL.IBN.NOH.IMIX.IA WATIE (6.2000) SUBO.XCBR	ACF 1 11JJ) • 1=1JDC)			
195		TREO. TREO. TO 11 11-15				
200	21	IN 11-50-17 60 10 12 CONTINUE MMM=1 60 10 14				
205	1 13	CONTINUE HMM=TM(I_1)*1.1 LLL=TM(I)*.1 If (NRSID.ECO) GO TO 2				
210	15	100 13 Juneariele THY(I)=TH IF(LZ.NE.3) GO TO 11 IF(NELEX.EG.0) GO TO 11				
215		A X X				
920	12 1	IF((IAXK.E0.1).AND.(AXK.GT.500.)) AXK=500. WRITE(6.27) FORWAT(" MAIN-1 HEWE") WRITE(6.77) SLSOBTR.PVTRGD.FLSR ".3F10.0)				
\$52	, es	IF(15TE.LE.2) GO TO 401 CONTINUE WRITE(6,29) FORMAT(" MAIN- 2 MERE")				

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FTN 4.6-420

74/74 OPT=0 ROUND=+/ TRACE

PROGRAM MAIN

	PROGRAM MAIN	74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6+420	09/02/77 13.54.00
	91	CONTINUE		
540	116	AN = TR DO 35 I=1.LS IF (NRIGID.EQ.0) GO TO 32 COVREDIJ.1 = TRY(I) / FAC COVREDIJ.1 = COVRED (J.1) / FAC		
295	35 35			
300	•	IF (WF LEX-LE.0) 60 10 40 REWIND 5 READ (5-9100) (ESWL (JJ.1) *1=1.20) READ (5-9000) AESWL (JJ.) *WHEELS (JJ.) WRITE (6.7000) (ESWL (JJ.1) *1=1.20)		
305	\$			
£ 17	0	CONTINUE IF (VFLEx.LE.0) 60 TO 20 IGR=1 NNAT+NCOM+NSBB+NB GGR(1) = XCRR		
, sic	5 201			
320				
328	202			
330	203	5-000		
Stt				
340	204	. CONTINUE 1 CONTINUE 1 CONTINUE WRITE (6.2000) CBR		

PAGE

	PROSRAM MAIN	74/74 OPT=0 ROUND=0/ TRACE	FTN 4.6-420	09/02/77 13.54.00	13.54.00	PAGE
345						
	8	CONTINUE IF (-FIGID.EG.0)60 TO 141 IF (LZ.EG.3) GO TO 141				
350	346	ATH (1) = HH (1)				
	2	FK3=1046*(XK-200.)/100. FK1=-95406*(XK-300.)/100. FK2=-994066*(XK-400.)/100.				
355		16=1 IF (1AKK.EO.1) 16=2 DO 142 [E=1.16				
		00 140 1=1.NOH				
350		IF(xx.GE.200A.Xx.LT.300.)HH([)=HH(I)=FK] IF(xx.GE.300A.Xx.LT.400.)HH(I)=HH(I)=FK] IF(xx.GE.400A.Xx.LT.500.)HI(I)=HH(I)=FK? IF(xx.GE.500.)HI(I)=HH(I)=B08				
345	140	CONTINUE 60 TO 142				
	3	D0 144 [=] NOH IF (XK.GE.200A.XK.LT.300.) AHH(I) = AHH(I) = FK3 IF (XK.GE.300A.XK.LT.400.) AHH(I) = AHH(I) = FK3				
976	111	IF (XK GE -500.) AHH(I)=AHH(I) 808 CONTINUE CONTINUE				
ž	<u> </u>	CONTINUE IF (NP.EG. 1) WRITE(6.8001) IF (NP. EG. 2) WRITE(6.8002) IF (NP. LT. 1 .OR. NP. GT. 2) WRITE(6.8006) IF (10. EG. 1) WRITE(6.8007)				
380		If (10 -ET. 2) WRITE(6.8020) If (10 -ET. 3) WRITE(6.8009) WRITE(6.8009) JDL.IMIX CALL SFCOND(8)				
š		WRITE(6,2500) B CALL PEMARKITSHENTER OVERLAY 3) CALL OVEHLAY (4HLIFE,3.0.0) CALL REMARKITHEXIT OVERLAY 3) CALL SECOND(8)				
390		WMITE(4,2500) B CALL ARMARKISHENTER OVERLAY 6) CALL OVERLAY(4HLIFE,6,0,0) STOP 0011 END				

•					387	716	596
3							
PAGE			370	232	383	312	293
13.54.00	.TED.		370	06F1N60 251	382 382 230	DEF INED	262
11/20/60	7 BE INHIBI	302	369	256 0EF I NEO	285	34. 89	DEF INED
027.	IZATION MAY	DEFINED	368	254 256 27 97	220 263 0EFINED	343	162
FTN 4.6.420	CED. OPTIM	306	367	253 253 DEFINED	219	342 338 DEFINED	293
	EQUIVALENC	304 194	280	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	161 , 45	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	s 4
OPT=0 ROUND=*/ TRACE S OF PROBLEM	COMMON OR	REFS REFS REFS	REFS REFS DEFINED		2002 2002 2003 2003 2003 2003 2003 2003		REFS
74/74 OPT=0 ROUND= DIAGNOSIS OF PROBLEM	CONTROL VARIABLE IN COMMON OR EQUIVALENCED, OPTIMIZATION MAY BE INMIBITED.	ERENCES 74 RELOCATION ABLK WES ABLK	ABLK HBLK	AKBLKA ABLKA AKBLKA AKBLK ABLKA ZONES ZONES ZONES ZONES ZONES	AKBLK AARBU BABUK	DENBLAZZ WES KARO CARO CSTBK RL2 PRVNT BLOCKB BLOCKB KARO	SGSWP2 MIXBLK
74/74 DIAGNOS	CONTROL	MAP (R=3) REFERENCES 60 RELOCAT RELOCAT ABRAY WES ARRAY ABL	ARRAY	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		АЯНАЧ АЯНАЧ АЯНАЧ	ARRAY
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CARD NR.	185	SYMBOI ENTRY POINTS 15743 MAIN VARIABLES 0 A 310 AESML 51 AG	38		20374		312

•			900	362 363 237 26282 316 26350 26350 272
PAGE		;	307	361 352 216 208 338 338 209 270 322
13.54.00		232	DEFINED 297	200 360 361 211 2*273 2*273 2*366 337 2*368
09/02/11		97 DEFINED	308 296 353 354 354	DEFINED 350 350 270 270 303 311 2*367 252
• 450	80	96 96 109 109 85 0EF INED 233	306 293 105 160 DEFINED DEFINED	2.53 2.79 2.79 2.79 2.79 2.70 2.70 2.90 3.90 3.90 3.90 3.90 3.90
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0PT=0 R0U	RELOCATION PRVNT ROSTR TSV SGSWP2 KAPO	CUSA CUSA CUSA CUSA COND COND KRZ COND KRZ COND RRZ PCI PCI TSV	WES LCY 1 ABLK 1 ABLK 1 ABLK 1 ABLO 1	PROCKB BLOCKB BLOCKB BSRLK HBLK DRNBLK2
74/74	REL ARRAY ARRAY	A RRA	ARRAY	A P A A A A A A A A A A A A A A A A A A
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RELOCATION	TYPE RELOCATION			A.	54	7,	161	192	195			
INTEGER ARRAY LTTBLK	ARRAY LTTBLK	LTTBLK		REF		20	DEF INED	195				
INTEGER	KAYBK			DEF INF	_	8 4	218	519	220	584	356	
				REFS		230	233	DEFINED	558			
18N INTEGER AMBLK REFS	AMBLK			REFS		25	192	DEF INEO	56	;		
BSBLK	BSBLK			REFS		30	2*166	225	DEF INED	95	***	
INTEGER	COOL			0560		22	OFF INFO	2	141	DET THED	1110	
INTEGER	CAA X			REFS		4 0	200	CD				
INTEGER	RESTR			REFS		65						
INTEGER	PRVNT			REFS		609						
INTEGER	DORK			REFS		36	377	378	379	2.380		
				DEF INED		100						
IT INTEGER ARRAY HL1	ARRAY HL1	HL1		REFS		67	DEF INED	107				
INTEGER	RODLOD	RUDLOD		REFS		10	DEF INED	103				
INTEGER DRNBLKZ	DRNBLKZ			REFS		39						
DANBLK2	DRNBLKZ			REFS		39						
INTEGER	RODLOD			REFS		70	DEFINED	103				
SURK	SURK			RFFS		75	DEFINED	96				
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INTEGER	NOOL			KET S		7	DEFINED	95				
INTEGER	KARO			REFS		45	175	176	177	541	242	
INTEGER	PRVNT			REFS		9						
ВГОСКО	ВГОСКО	BLOCKD	0	REFS		53	178	5-179	2.180			
INTEGER ARRAY ABLK3	ARRAY ABLK3	ABLK3		REFS		50						
INTEGER				REFS		357	DEF INED	355	356			
MXBLK	MXBLK			REFS		99	DEF INED	184				
INTEGER		REFS	REFS	REFS		317	321	354	328	331	335	338
				DEFINED		313	316	323	330	337		
INTEGER	BLOCKC			REFS		28						
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INTEGER	BLOCKC			KEFS		58	,					
BLOCKC	BLOCKC			REFS		28						
INTEGER	DOBK			REFS		36	DEFINED	100				
INTEGER	SURK			REFS		75	DEFINED	100				
INTEGER	PRIVITI	-	-	DEFE		24	DEF INFO	70				
				0550		200	330	227	DEFINED	155	330	316
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INTEGER	TWPL			REFS		78						
INTEGER	FLAG			REFS		45						
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TNTEGER	SCANS			BEFS		22	189	102	383	DEFINED	001	
TATEGER	LENNOG			DEFE		43	DEFINED	76	100	200	201	
	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					200	1960	20.00				
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FTN 4.6.420		105		101	98		001	DEF		DEFINED		219	DEF	290						16			DEFINED		_		334	0.20		562		314	210			34.0		86 0		376				261
FTN 4		DEFINED		DEF INED	DEFINED		DEFINED	214	DEF INE	270	DEF INE	218	281	198	191	212		DEFINED	OFF INFO	DEFINED			192	DEFINED	DEF INE		311			213		311	189			103	7.1	OEF INED		981				208
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74/74	R		ARRAY	ARRAY							AKKAY				24004		ARRAY								ARRAY								ARRAY					ARRAY						
PROGRAM MAIN	SN TYPE	INTEGER		INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER		INTEGER	TATEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TNIFGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER		INTEGER	TNIFGED	INTEGER		INTEGER	INTEGER	INTEGER	1			TATEGER		INTEGER	INTEGER	INTEGER
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INTEGER INTEGE	Name	T LEANDONL			מיייי מייייי מייייי מייייי	ATT INACE		FTN 4.6.420	024+	04/05///	13.54.00	7995	71
NETTINGER NETINGER	NEGGE NEW NE	SN	TYPE	REL	OCATION								
NITEGER NICKER	NITEGER NITE	NSBB	INTEGER		LYTD	267 REFS	291	347	DEF INED	329	DEFINED	98	
NY ECCEPT NY NY NY NY NY NY NY N	NYEGER NYEK REFS 59 NYEK		INTEGER		ROSTR	REFS	79						
NEGER ARRAY ANILK REFS 59 DEFINED 101	INTEGER ARRAY WALK REFS SS DEFINED 107		INTEGER		NBLK	REFS	5.8						
Figure Mark	Fell Corr		IN FORK		NALK	KEFS	20						
Colored Colo	March Marc		INIEGER	AKKAY	MANLA	KET S	53	DEFINED	101				
Color	Column		ME AL		0 0	5448	55	DEF INED	107				
## 1	Color		NE AL		200	2000	5	DEF INED	101				
## 1	## 1		7 4 7		DANG	5 1 1 1	40						
### BLOCKS REFS 39 ### BLOCKS REFS 25 ### BL	Colored Colo		NE AL		AKHLK	KETS	2						
### BLOCKS REFS 25 ### BL	BEAL BLOCKE REFS 25 25 25 25 25 25 25 2	5	X 2 4 1		DENBLAZ	5 1 2	5 6						
Color	Colored Colo		AC 4.		DANBLAC	KETS	39						
## BLOCKS REFS 25 ## ARRAY PRIVIT REFS 25 ##	## BEAL BUCKN REFS 25 ## BEAL ARRAY PRVNT REFS 25 ## BEAL ARRAY REFS 26 ## BEAL		ME AL		BLOCKB	KETS	52						
FEAT BLOCK FEFS 29 223 FEAT FE	## 1		ME AL		BLOCKB	KEFS	2						
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PEAL BELOCKO REFS 29 223 PEAL PRONT REFS 29 PEAL PEAL PRONT REFS 24 PEAL PEAL PEAL PEAL REFS 24 PEAL PEAL PEAL REFS 24 PEAL PEAL PEAL REFS 24 PEAL P	FEAL REPAY REFS 29 223 245 245 247 246 244 247 247 246 247 2		WE AL		150	HEF S	62						
Hear Hers	Hear Hers Second Second Hers Second S		PEAL		PKVNT	REFS	09						
## ARRAY PRIVIT REFS 29 223 ## ARRAY PRIVIT REFS 18 60 ## ARRAY PRIVIT REFS 18 60 ## ARRAY PRIVIT REFS 251 ## BLOCKB REFS 25 ## ARRAY PRIVIT REFS 24 ## ARRAY PRIVIT REFS 26 ## ARRAY PRIVIT	PEAL ARRAY PROTECT REFS 18 60		REAL		BLOCKU	REFS	53						
REAL ARRAY PRIVAT REFS 18 60 REAL ARRAY PRIVAT REFS 45 60 REAL CANDER RAPO REFS 45 60 REAL BLOCKB REFS 25 17 ARRAY 245 247 REAL BLOCKB REFS 25 25 ARRAY 245 247 247 REAL PRIVIT REFS 25 223 ARRAY 274	REAL ARRAY PRIVAT REFS 18 60 REAL ARRAY PRIVAT REFS 45 60 REAL CANDER RAPO REFS 45 60 REAL CANDER RAPO REFS 251 DEFINED 245 247 REAL CANDER REFS 255 255 255 247 247 247 REAL PRIVAT REFS 25 253 253 253 245 247 </td <td></td> <td>REAL</td> <td></td> <td>BLOCKD</td> <td>REFS</td> <td>62</td> <td>223</td> <td></td> <td></td> <td></td> <td></td> <td></td>		REAL		BLOCKD	REFS	62	223					
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	PROGRA	PROGRAM MAIN	74/74	140	=0 ROL	OPT=0 ROUND=+/ TRACE	•	FTN 4.6.420	6+420	11/20/60	13.54.00	•	PAGE	16
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COMMON		LENGTH 51 20 14	MEMBERS	- BIAS 0 A 21 AK 0 AKEF 0 AKEF 12 TBS	A A A A A A A A A A A A A A A A A A A	BIAS NAME(LENGTH) A (1) AK (10) AKET (10) AKEF (10) AKEF (10) AKEF (10) AKEF (10)	1 AP 31 ASI 10 IFS: 13 AAY 1 18NY	23.	222233	23 2	A A G B 1 G	66 6		
	BLBCK BLBCK BLOCKB	v0			APR PENF 18F	3333333333		PR DBIF PENR BF UBR BTR	8888888	008111	FCOMPF (1) SLSDBTR(1) FLSF (1) FSDBR (1) PRSUBR (1) PROBIF (1)	888888		
	PLOCKC PLOCKD BSBLK	7 4 4			- F U X X	9999999	1 11P 14 1SW 1 PVT 1 FDE	IIPAVT ISWITR PVTRGD FDE	88 8 8	251 2 2	MESS MSGSWZ IFLEXNA BTE	âa a a		
	PSBLK2 COND CSTBK CUSA DMBLK	1000			0 -	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 ESC 1 DLCI 1 ITY	ESC DLCR ITY	888	~ ~	05C 0720	a a		
	DOM DPNBLK DRNBLK2	164 1.			MNT CI DRNCST CI DCW CI DLO CENGTHOCI PIPCSTOCI NOUTO CI	:888888888	11476	DRAIN (1) 101PO (1) PERMO (1) CAVCSTO(1) SLO (1) LOUTO (1)	22222	N 10 80 E	EPO (1) H30 (1) FILCST0(1)	8898		
	HBLK 1ABLK XARD	7 4 4		0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JCOND CI	a§aaaaaaaa	01 14 / 01 16 16 16 16 16 16 16 16 16 16 16 16 16	FACN (1) ICONFIG(1) TOFP (1) SMOIST (1) SMOIST (1) ISUBHOR(1) CORRE	&a gaaagaa	96 25 137.6	LT TPAFF IPAVT AMINOR SUGMOD SUGMOD CORPIO	<u> </u>		
	KAYBK LCY LTTBLK	50 52			FAC XSTR	22228			6 66 8	2 ~ 2				

PROGRAM	M MAIN	74/74	OPT=0 RC	OPT=0 ROUND=0/ TRACE		FTN 4	FTN 4.6.420	11/20/60	13.54.00	91	PAGE	-
COMMON ALOCKS	LENGTH P	MEMBERS -	BIAS NAM	BIAS NAME (LENGTH)	1		(07)	7	NCOM	3		
		45	42 2CBH	(09)	102		(12)	103	T-X	(09)		
MANLK	455	000	NAM	(1)			::	~	N400	(50)		
MIXBLK	403	30		(100)	100		(001)	200		(500)		
	•	004	XIMI	3	104	בי בי	65	204	7			
2 1	۰,۰	0		33	• -	1098	êê					
MAN		. 0		::								
NBLK	· 00	0		9	-	HON	3	~ 1	197	23		
		е.		2:	4 1	¥ ;	ê:		200	2		
200	96	•	10007	(1)	•	××	E					
PRVNT	9 00			(1)	1	FACTRI	(1)		FACTRZ	ĉ		
	3	. 6	_	3	. 3		3			Ξ		
		ç		(1)	7		(02)	27				
		28	CRSL	3	53		_	30				
		3		3	32	CLNSWP	-	33	SLCT			
		3,4	160517	35	5.5		33	Gr.				
PRVNT	•	200		::	, -			2	1 > 1	3		
ROSTR	72	00	_	=======================================	-	NUMS		2	000	(10)		
		12	CSTRT	(09)						:		
RESTR	6	0			7.5		(1)	~	10001	=		
N .	530	0 0	2 4 7 5	(30)	פר -	X CAC		^	FARTHER	(1)		
17.					- 4			,				
91.2	813	10		(2)	o vo			13	13 10SCRPT (300	(300)		
		313		(150)	463							
800100	3	0		:	-		13	~	106	=		
SA	~	•	ALOS	3	- :	SOM	6			:		
SALK	15	0		(10)	0.		2:	= "	200			
SCAN3	29	٥٠	705	(1)	•	1	-	2	7	611		
666900	24.2	27		(300)	200	NOGEL		201	201 NREX2	-		
SUBSOS.	343	202	-	(50)	222		(50)	:				
SUBK	3	0		(1)	-		:	2	IDAY	=		
X825	2		2	=	-	MNTO	3					
THKBK	0,	0		(50)	20	TEKE	(50)					
TMPL	4			3	-	SWID	5	2	TACK!	=		
		.,	JACK	æ:	•			•				
157	•				1	ET DOCE (1)			20.07	::		
	•	-, -										
X P B X			HWI	33	• -	FUNC	::					
WES	240	, 0		(500)	200	AESWL	(10)	210	210 WHEELS	(10)		
		220	_	(50)								
ZONES	74	0		(6) d	0	APWID	(6)	18	APRSTR	(21)		
		4	S APREND	(22)	72		(1)	73				
STATISTICS												
PROGRAM LENGTH		26338	1435									
BUFFER LENGTH	9	157078										
CH LAMELED COMMO	MON LENGTH	106148										

SUBMOUTINE SORT	SORT	14/14 OPT=0 ROUND=+/ TRACE	FTN 4.6-420	09/02/77 13.54.00	13.54.00	PAGE
		SUBHOUTINE SORT(A.N) DIMENSION A (20)				
		WRITE(6.1000)N.(A(I).I=1.N)				
5	1	1 = 41				
		C= A(1)				
		I "				
	20	1- 7-1				
	27	IF(4(J) -C) 10.15.90				
10	15	A(J) = A(N)				
		1-N=N				
		IF () . LF. N) GO TO 27				
		GO TO 100				
	01	C=A(J)				
15		L = 41				
	96	IF (J .LT. N) GO TO 20				
		IF (IP .EQ. 1) GO TO 100				
		TEMP= A(I)				
		A(I) = A(IP)				
 50		A(IP)=TEMP				
	100	100 1=1+1				
		IF (1.LT.N)60 TO 7				
		WRITE (6.1000)N. (A(1).1=1.N)				
	1000	1000 FORMAT (1H0.2x.14.4x.10F10.0)				
 52		IF (A(N).LT.99.) A(N.1)=100.				
		IF (A(N).LT.99.) N=N+1				
		RETURN				
		END				

			18	19			61	23		16		2.53			
			71	10			18	21	15	15		25			
			10	-			17	1	2	14		16	56		
			•	DEF INED		14	1	3	DEFINED	12		12	11		
			9	92		9	•	DEFINED	50	10		11	-	18	
			3	52		DEF INED	2	23	19	•	60	10	DEF INED	DEF INED	
			2	23	52	•	3	25	17	œ	1	2+3	5.56	20	23
			REFS	19	50	REFS	REFS	21	REFS	REFS	DEF INED	REFS	2*25	REFS	
MAP (R=3)	REFERENCES 27	RELOCATION	IRRAY F.P.									F.P.			WRITES
SYMBOLIC REFERENCE MAP	DES LINE	SN TYPE				REAL	INTEGER		INTEGER	INTEGER		INTEGER		REAL	HODE
SYMBOLI	ENTRY POINTS	VARIABLES	4 0			150 C	1 9 1		147 IP	151		z		152 TEMP	FILE NAMES TAPES

SUBROUTINE GINT	GINT	74/74 OPT=0 ROUND=*/ TRACE	FTN 4.6.420	11/20/60	13.54.00
	•	(N) 0= A			
•	N 4	MEN CONTINUE TRE0			
\$9	15	IF(ITR.EQ.2) GO TO 22 IF(M.GT.J) K=M IF(J.GT.M) K=J BK=H(K)			
70	•	BJM=B(K-1) IF(RK.GT.RJM) GO TO 18 IF(IBP.GGT.RJM).OR.(RP.LT.BK)) GO TO 14 OT OT 0 19 IF((PP.GT.BK).OR.(BP.LT.BJM)) GO TO 14			
ኢ	1	60 TO 19 IF(1J.EG.1).OR.(J.EG.L)) 60 TO 19 IF(J.LT.M) 60 TO 20 M=J.1			
00	20	60 TO 21 M=J-1 ITR=ITR+1 GO TO 15			
88	6 ~	CONTINUE 1F(J.FO.1) GO TO 7 1F(J.FO.1) GO TO 7 8P1=RP 8P2=H(1)			
8		BP3=B(2) IF((HP1.6E.8P2).AND.(BP1.LE.8P3)) GO TO 10 IF((HP1.LE.8P2).AND.(BP1.6E.8P3)) GO TO 10 AP=A(1) WRITE(6.5000) AP.8P			
\$	c •	CONTINUE 1F(J-50-L) GO TO 9 GO TO 10 BP1=BP BP2=B(L-1) FP3=B(L) 1F((BP1-GE-8P2).AND.(BP1-LE-8P3)) GO TO 10			
100	01	IF((BP1.LE.BP2).AND.(BP1.GE.BP3)) GO TO 10 AP=A(L) WYTE(6.5000) AP.BP GO TO 11 CONTINUE CONTI			
105	91	SC-8(K)-78(K-1) IF(ABS(SLD)-0.0000001) 13.16.16 CONTINUE SL-SL/SLO IF(K,FO,M) AP=A(K-1).5(1.000001)			
911	= 21	IF (K.EO.J) AP=A(K)-SL-(B(K)-BP) CONTINUE K=K-IFRONT RETURN WHITE (6.3000)			

•				110	109	*	6		96	2	96	97			27					2.7		;	•			75	
PAGE				109	100	33	\$		06	2	84 85	86			23	15				5.65			9	3116	100	85	
13.54.00				20105	60	30	9 7 7	99	78	;	DEF INED	DEF INEO	ď	2	25	20	35	711	70	40	110		07.0	112	41	DEF INED	
11/20/60				100		23	12	DEF INED	20.7	1	5666	66	23	, -	-61	67	; F.	24	92	26	93	37	36100	65	96	100	
•420				6	DEFINED	22	DEF INED	: =	30	DEFINED	2.98 98	96	19	2000	18	5.48	DEF INED	;	14	34	85	15	20105	649	93	DEF INED	
FTN 4.6+420				2,5	101	19	110	6 6	DEF INED	110	2*88	88	DEF INED	: :	2*12	24.5	36	\$ 2	DEF INED	33	7.5	DEF INED	20106	39	73	6 59	
				~;	106	~	109	8 9	33	109	2*87	87	25	4 00 0	2*11	2*41	32	2 %	17	30	75	58	10	5 -	52	2.64	
OPT=0 ROUND=+/ TRACE				REFS	REFS	REFS	2*105	REFS	REFS	101	REFS	REFS	REFS	DEFINED	REFS	62	REFS	DEFINED	REFS	REFS	74	REFS	REFS	DEFINED	REFS	REFS	11
0PT=0 RO			NCES	RELOCATION	F.P.				9	:												,	. A.			r. P.	
74/74	60 TO 17 WRITE (6,4000) 60 TO 17 WRITE (6,7000) CONTINUE STOP 0031	MAP (R=3)	REFERENCES 113	PEL ARRAY		ARRAY							ABBA		AKKAY												
SUBROUTINE GINT	13 WP1 13 WP1 22 WP1 17 CON	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	SN TYPE REAL	PEAL	PEAL		PEAL	PEAL		REAL	REAL	PEAL	7. 30	INTEGER		INTEGER		INTEGER	INTEGER		INTEGER	INTEGER		INTEGER	INTEGER INTEGER	
SUBROU	w e	SYMBOL	ENTRY POINTS	LES	Q 4	•	2	E X	BKEEP		8P1		BSAVE				TBACK	202	1510P	. 7		JSTOP	*		ر	2,	
	115		ENTRY	VARIABLES S76 A	•	141	5	567	557	,	572	573	1104		551		260	566	252	256		553			295	565	

PAGE	55 108			
13.54.00	DEFINED 104 45			
71720760	59 1 105 105 444 58	118		
0250	SB DEFINED 110 DEFINED DEFINED S4	116	3	
FTN 4.6.420	57 109 108 108 49	1 87	86 %	
	56 108 106 45 57	101	2 23 23 23	
OPT=0 HOUND=+/ TRACE	2	90 REFERENCES 22	CES 57 117 117 22 28 21 21 21 21 21 21 21 21 21 21 21 21 21	PROPERTIES OPT OPT OPT
OPT=0 ROUN	F.P.	WRITES DEF LINE	2 PEFERENCES 47 47 47 47 47 47 47 47 47 47 47 47 47	LENGTH 118 748 138 208
74/74	ARRAY	ARGS 1 INTRIN	17VE 53 17VE 50 17VE 50 103 110 110 110 1110 1110 1110 1110 1	FROM-TO 10 13 16 39 40 43 47 53
INE GINT	SN TYPE INTEGER PEAL PEAL PEAL REAL REAL	FHT FHT S TYPE	INACTIVE INACTIVE INACTIVE INACTIVE FHT	INDEX
SUBROUTIN		FILE NAMES TAPE6 INLINE FUNCTIONS ABS	ENT LABELS 2	148£L 39 39 1
	VARIABLES 554 N 0 P 574 SL 575 SLD 561 X	FILE N	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	23 23 42 143 171

	SUBROUTINE COVSK	COVS	47/47 X	0PT=0	OPT=0 ROUND=+/ TRACE	7 TRAC	w	FTN 4	FTN 4.6.420	09/02/77 13.54.00	13.54.00	PAGE	2
	9	100	60 T0 35 00 13 I=1.11 0EL(I)=K1n0(I) CONTINUE										
•	S	200											
	0.	15											
	2 7	500 17 35											
w	000	18	KR=11 CAL GINT(DEL.CONFLX.FS.DUM.KR.11) CAL INUE DM=(XK-KL)/(KH-KL)*(REF(2)-REF(1))+REF(1)	.CONFL	(.FS.DUM	1.KR.11) •REF (1)						
	Se	9.8	KR=22 CALL GINI (PAVY,REFY,DM,RPAV,KR,22) RETURN WRITE(8-1101)XK FORMAT(," COVSK-SUBGRADE MODULUS GF	VY.REF	Y.DM.RPA	IV.KR.2	2) GREATER THAN	200 0	R LESS THAN 25	į.			
• •	\$ %	99 1002 36	10FF CHART.xXE ".F5.1) 60 TO 36 WRITE(8.1002)FS FORMAT(/"COVSK-CONCRETE FLEXURAL STRENGTH GREATER THAN 800 OR LESS 1 THAN 550-OFF CHART.FS= ".F5.1) END	FS K-CONC CHART	1) RETE FLE	XURAL 5.1)	STRENGTH GRE	ATER T	OFF CHART.XX= ".FS.1) 60 TO 36 WRITE(8.1002)FS FORMAT(/"COVSK-CONCRETE FLEXURAL STRENGTH GREATER THAN 800 OR LESS THAN 550-OFF CHART.FS= ".F5.1) STOP 0041	SS			

			99				-	2.68	67
								~	
		10	25				DEFINED	5.64	63
		0	0				_		
		DEF INE	DEFINED		83		16	5.6	59
		80	90	16	DEF INED	91	90	5.56	55
		2	4	72	85	90	2*21	2*52	51
		REFS	REFS	89	REFS	REFS	REFS	REFS	DEF INED
REFERENCES 96	RELOCATION	ARRAY	ARRAY				F.P.		
DEF LINE	TYPE	REAL	REAL		REAL	PEAL	REAL	INTEGER	
POINTS	ARTABLES SN	CONFLX	DEL		HO	HOO	FS		
ENTRY P	VARIABL	474	929		415	414	0	412	

SYMBOLIC REFERENCE MAP (R=3)

2.76

20.22

3

,	90	3	32		2.83															2.37																											
PAGE	0,	;	62		04	37														5.34																											
13.54.00	87		92	1,	36	34	78													16•3																											
120760	17		23	04	33	31	42	15	16	12	17	18	14	19	77	•	81	9		82.2												14															
024	41	2	DEF INED	DEFINED	30	28	DEF INEO	DEF INED	DEF INED	DEFINED	DEF INED	DEF INED	DEF INED	DEFINED	DEF INED	DEF INED	DEFINED	DEF INED	- :	2•25										•		70		36													
1 1 4.6.4 CU	57	;	83	43	27	25	85	9	79	52	89	72	26	9,2	91	85	3*83	95	DEF INED	22 DEFINED												99		33											NOT INNER		
	11	t 1	17	8 ~	54	22	80	4	4	3	4	4	3	4	43	~	~	~	82	87	16											62		30											EXT REFS		
DE ./ INACE	2440	DEF INED	REFS	REFS	REFS	DEF INED	REFS	REFS	REFS	HEFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS 83	87	85	CES									58		27										PROPERTIES	EXT	INSTACK	INSTACK
OF THE ROUNDS IN THACE	RELOCATION																		9.	ď.	WRITES	REFERENCES 80	VE REFERENCES		55	65	35	ò÷	2.0	2,2	1 1	24	06	5 %	57	20	7	9,	4 4	9	20	87	16	FNOTH	1428	68	69
14/14	REI			ARRAY				ARRAY	ARHAY	ARRAY	ARHAY	ARRAY	ANNA	ARRAY		ARHAY	ARRAY	ARRAY				ARGS 6	DEF LINE	53	57		000	6 5	1,3	24	51	78	76	39	55	28	16	65	5.5	71	75	98	26	FROM-TO	42 82	51 53	55 57
SUBROUTINE CONSK	SN TYPE	INICOCK	INTEGER	TNTFGER	INTEGER		INTEGER	REAL	REAL	PEAL	PEAL	REAL	REAL	PEAL	INTEGER	REAL	PE AL	PEAL	PEAL	REAL	FMT	TYPE	. S7																			FMT	FMT	INDEX		-	-
LOOMBOS	VARIABLES		HN 107	S07 KK						613 K25				511 KS00			472 REF		O PPAV	×	TAPES TAPES	EXTERNALS	STATEMENT LABELS		21 0	613		51 0	2.2	- d	. ~	254 35									544 500			LOOPS LABEL	'-	157 11	-
	VAR	•	4	ď	4		4	5	2	9	S	S	9	2	4	4	4	4			1	EXT	STA								-	2	3	-	-	m (m (•	u ^		~	3	9	100		-	-

	SUBROUT	SUBROUTINE COVSK	74/74	0PT=0 RC	OPT=0 ROUND=*/ TRACE	FTN 4.6.420	11/20/60	19/02/77 13.54.00	•
201 201 212 223 234 245	LOOPS LABEL 201 13 212 14 223 15 234 16 245 17	INDEX	FROM-TO 59 61 63 65 67 71 75 77	LENGTH 68 68 68 68 68 68	PROPERTIES INSTACK INSTACK INSTACK INSTACK INSTACK INSTACK INSTACK				
STATISTICS	ATISTICS		0197	367					

Sepanoline Services											
DEFENCION EARLY STATES AND CHAIR STATES				Church	175.55						
Purity P	-	10	MENSION AKA	Y (5) . WGC	4(5.5)						
REAL VASAC(15.5)			MENSION EFX	4(5)							
			AL NSAG(5.5	•							
COMPAGE AND	2	Z	TEGER GRM								
0.014 (GCC4(1) 11-15) (SCC4(1) 11-15) (SCC4(1		00	MMON /NHLK/	NOC - NOH	N.XN. IAN.	14.NOD.	NOS6.XK				
00.14 (GCC4(1.1) 1=15.5) /50.1(20.1) 0.70.		VO.		5010	02003	/-001					
DATA (WCCW(2.11.1=11.5) /10019025025540540104655./ DATA (WCCW(2.11.1=11.5) /10019025545540104655./ DATA (WCCW(2.11.1=11.5) /10019025545540104655./ DATA (WCCW(2.11.1=11.5) /10025545540104655./ DATA (WAGG(2.11.1=11.5) /10025545540104655./ DATA (WAGG(2.11.1=11.5) /10025545530103004004015./ DATA (WAGG(2.11.1=11.5) /245380390400415./ DATA (WAGG(2.11.1=11.5) /245380390390400415./ DATA (WAGG(2.11.1=11.5) /245380390390390400415./ DATA (WAGG(2.11.1=11.5) /245380390390390400415./ DATA (WAGG(2.11.1=11.5) /245380390390390390390400415./ DATA (WAGG(2.11.1=11.5) /245380390390390390400415./ DATA (WAGG(2.11.1=11.5) /245380390390390390390390390		WO.	TA (WGCM(1.	11.1=1.5	/50.12	001100	255310.	,			
DATA (WGCW(4,1), 1:11-5) 729, 195, 195, 195, 195, 195, 195, 195, 19		V O		11.1=1.5		9026	0.,325.,36	/•			
DATA (WCCK(+11).1=15) 7295.1365.25.900.500.7 DATA (WCCK(+11).1=15) 730.450.455.450.500.500.7 DATA (WASG(+11).1=15) 745.1360.130.130.265.7 DATA (WASG(+11).1=15) 745.1360.1375.3365.7 DATA (WASG(+11).1=15) 745.1360.1376.3365.7 DATA (WASG(+11).1=15) 745.1360.130.130.130.100.1 DATA (WASG(+11).1=15) 745.1360.130.100.1 DATA (WASG(+11).1=15) 745.1360.130.100.1 DATA (WASG(+11).1=15) 745.130.1 DATA (WASG(+11).1=15) 745.1 DATA (WASG(+11).1=15) 745.1 DATA (WASG(+11).1=15) 745.1 D	10	DA	TA (WGCM(3.	11,1=1,5		9536	5.,410.,465	/•			
DATA NGSAGATION = 1-55 / 370.425.45.500.700.700.700.700.700.700.700.700.70		OA	TA (WGCM 14.	11,1=1,5		165.042	5490500	/:			
DATA KNSAG(2.1):=1:5 50.110.:180.200.265.7 DATA KNSAG(2.1):=1:5 746110.210.200.200. DATA KNSAG(2.1):=1:5 746120.200.200. DATA KNSAG(2.1):=1:5 749270270185./ DATA KNSAG(2.1):=1:5 749270185./ DATA KNSAG(2.1):=1:5 749270185./ DATA KNSAG(2.1):=1:5 749270185./ A=FODAI(-1):010 A=A+10. B=A+10.		DA		11.1=1.5		75.047	5500500	`			
		V		11.7=1.5		0.1180	230 265				
DITA (ISAGICALINE) DITA (ISAGICALINE) DITA (ISAGICALINE) AFTOATI (1-1) (1-1						325	225 200				
DATA (NAME AND			2000000			2000	200000000000000000000000000000000000000				
DATA (WASHIGHTELE S) /249.330.350.4375.1895./ DATA (WASHIGHTELE S) /249.330.350.4375.1895./ AFCOATION SECONDAND. (BTE.LE.B)) GO TO 3 2 CONTINUE 3 DO 4. 11.5 1 [6.16.2] EFKA(1)=AKAY(1).(BTE-A)*(WGCM(1,J-1)-AKAY(1))/10. 1 [7.16.2] EFKA(1)=AKAY(1).(BTE-A)*(WGCM(1,J-1)-AKAY(1))/10. 1 [7.16.2] EFKA(1)=AKAY(1).(BTE-A)*(WGCM(1,J-1)-AKAY(1))/10. 1 [7.16.2] EFKA(1)=AKAY(1).(BTE-A)*(WGCM(1,J-1)-AKAY(1))/10. 1 [7.16.2] EFKA(1)=NSAG(1,J-2).(BTE-A)*(WSG(1,J-1)-NSAG(1,J-2))/ 1 [7.16.2] EFKA(1)=NSAG(1,J-2).(BTE-A)*(WSG(1,J-1)-NSAG(1,J-2))/ 1 [7.16.2] EFKA(1)=NSAG(1,J-2).(BTE-A)*(WSG(1,J-1)-WSG(1,J-2))/ 1 [7.16.2] EFKA(1)=NSAG(1,J-2).(BTE-A)*(WSG(1,J-1)-WSG(1,J-2))/ 1 [7.16.2] EFKA(1,J-1)*(KK-A)*(EFKA(J)-EFKA(J-1))/(B-A) 1 [7.16.2] EFKA(1,J-1)*(KK-A)*(EFKA(J)-EFKA(J-1))/(B-A) 1 [7.16.2] EFFRENCE MAP (R=3)	2	40	TA (FISAIS)	51111		10.00	533030				
Mark Notice		40	TA INSAINT	501=101		30.036	0.1375.138				
### ### #### #########################		40	TA (NSAG(5.	11,11,5		180 - 139	040041	/:			
### ##################################		00	5 1=1.5								
BOLIC REFERENCE HAPPE BIE		=V	FLOAT (1-1)	10.							
	50	8	4.10.								
2		-									
2 CONTINUE 3 DO 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		31	THE GE AT	TON COT	118 911						
5					110011		•				
3 10 (1084 ± 60.2) 60 TO 5 If (1.60.2) EFKA(I) = MKAY(I) (BTE-A) * (MGCM(I,J-I) - AKAY(I)) / 10. If (1.60.2) EFKA(I) = MKAY(I) (BTE-A) * (MGCM(I,J-I) - MGCM(I,J-2)) / 10. If (1.60.2) EFKA(I) = MGCM(I,J-2) (BTE-A) * (MSGG(I,J-I) - MSGG(I,J-2)) / 10. If (1.60.2) EFKA(I) = MSGG(I,J-2) * (BTE-A) * (MSGG(I,J-I) - MSGG(I,J-2)) / 10. If (1.60.2) EFKA(I) = MSGG(I,J-2) * (BTE-A) * (MSGG(I,J-I) - MSGG(I,J-2)) / 10. If (1.60.2) EFKA(I) = MSGG(I,J-2) * (BTE-A) * (MSGG(I,J-I) - MSGG(I,J-2) / 10. If (1.60.2) EFKA(I) = MSGG(I,J-1) * (BTE-A) * (BTE-			1405								
If (J.E0.2) EFA(II) = MAN'(I) + (BTE-A) * (WGCM(II,J-1) - WGCM(II,J-2)) If (J.GT.2) EFA(II) = WGCM(II,J-2) + (BTE-A) * (WGCM(II,J-1) - WGCM(II,J-2)) 10.	52	4 I	(GBM.EQ.2)	60 10 5							
		31	(1.FO.2) FF	KAII)=AK	AY (1) + (R)	F-41 .	UGCM(I.I-1)	-AKAY	.0177710-		
10. 10. 10. 10. 10. 10. 10. 10. 10. 10.		9.	1 CT 21 FF	KALTIERS	W.T. 1-21	AIBTE	114000000000000000000000000000000000000	-	A COLL TOWN		
10			13.11.60		77-6-11-0	1015	TI MOCHILL	1110	113-C111-00		
S		911	* 01								
SON	:										
	30										
1F(J.6T.2)		JI I		KA(I)=AK	AY (1) + (B1	E-A) * (NSAG(1.7-1)	-AKAY	(1))/10.		
110. 110.		16		KA(I)=NS	46(1, 3-2)	+ (BTE-	A) * (NSAG(I,	-1-7	NSAG(1.3-2))/		
6 CONTINUE 4 CONTINUE DD 7 I=1.4 A=AKAY(I) B=AKAY(I) B=A		110									
# CONTINUE DD 7 I=1.4 A=MAY(I) B=AKAY(I) B=AKAY(I) J=I01 IF(IKK.GE.A).AND.(XK.LE.B)) GO TO B T CONTINUE B EFK=EFKA(J-1).(XK-A).(EFKA(J-1))/(B-A) RETURN END END ITS DEF LINE REFERENCES IN 43 SN TYPE RELOCATION BFFS 20 22 22 22 23 25 27 33			MINITALIE								
BOLIC REFERENCE MAP (R=3) SN TYPE REACATION BOT 1=1.4 A=AKAY(1):1 J=1.1 SETURN END FIND REFERENCE REFERENCES JN PE RELOCATION REFER PO TO B	35		NTINIE								
DO TIE 4.4 A = A & A & Y (1) B = A & A & Y (1) B = A & A & Y (1) B = A & A & Y (1) T CONTINUE B EFK = EFK (1) - (XK - A) + (EFK A (1) - 1) / (B - A) RETURN END HETURN END TS DEF LINE REFERENCES IN 43 SN TYPE RELOCATION BFF ST	23		300.1								
######################################		00	7 1=1.4								
BARAY(1-1) J=1-1 IF((xx,GE-A).AND.(XX.LE.B)) GO TO B FORTINGE B EFREFRA(J-1).(XX-A)*(EFRA(J-1))/(B-A) RETURN END ITS DEF LINE REFERENCES IN TYPE SO TYPE RELOCATION REFG 20 22 24 27 31		A=	AKAY(I)								
17 (100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8	AKAY (I+1)								
T		. •									
T CONTINUE 8 EFR=EFRA(J-1) * (XK-A) * (EFKA(J-1)) / (8-A) RETURN END ITS DEF LINE REFERENCES SN TYPE RELOCATION BFFS 20 22 22 23 33 33 34 34 34 34 34 34 34 34 34 34 34	•	, .	10 30 3311	22.	2000	0 04					
BOLIC REFERENCE MAP (R=3) ITS DEF LINE REFERENCES SN TYPE RELOCATION REFERENCES OF AN AND AND AND AND AND AND AND AND AND	2			AND - 147 -	00 (10.3	0					
BOLIC REFERENCE MAP (R=3) SN TYPE RELOCATION REFERENCE RETURN RET			NTINCE								
BOLIC REFERENCE MAP (R=3) ITS DEF LINE REFERENCES SN TYPE RELOCATION REFS 20 22 24 27 33			K=EFKA(J-1)	. (XX-XX) .	(EFKA(J)-	-EFKA(J	-1)) / (B-A)				
END BOLIC REFERENCE MAP (R=3) ITS DEF LINE REFERENCES IN 1 43 SN TYPE RELOCATION REFS 20 25 25 37 33		RE	TURN								
BOLIC REFERENCE MAP (R=3) TS DEF LINE REFERENCES IN 43 SN TYPE RELOCATION RFFS 20 22 24 27 33		N. W.	0								
BOLIC REFERENCE MAP (R=3) ITS DEF LINE REFERENCES IN 43 SN TYPE RELOCATION REFS 20 22 24 27 33											
BOLIC REFERENCE MAP (R=3) ITS DEF LINE REFERENCES IN 43 SN TYPE RELOCATION REFS 20 22 24 27 33											
BOLIC REFERENCE MAP (R=3) ITS DEF LINE REFERENCES IN 43 SN TYPE RELOCATION RFFS 20 22 24 27 33											
BOLIC REFERENCE MAP (R=3) ITS DEF LINE REFERENCES I 43 SN TYPE RELOCATION REFS 20 22 24 27 33											
SN TYPE RELOCATION REFS 20 22 24 27 33	0000	3003030	10-07								
SN TYPE RELOCATION REFS 20 22 24 27 33	DOM:	רור אניבאניינ	MAP (R=3)								
SN TYPE RELOCATION REFS 20 22 24 27 33	Y POINTS			NCES							
SN TYPE RELOCATION REFS 20 22 24 27 33	1 043111		•								
SPEAT REFS 20 22 24 27 31	ABIEC		130	MOLITON							
					930		9.0	22	76	22	 33
					.,	24.5	DEP INED		31		

REFS 20 2*42 DEFINED

	SUBROUTINE BASIN	TINE	BASIN	74/74	0PT=0 ROU	OPT=0 ROUND=+/ TRACE		FTN 4.6.420	027-9	11/20/60	13.54.00		PAGE	~
VARIABLES 166 AK	MES	NS S	TYPE	REL	RELOCATION	REFS	~	5*26	2•31	37	38			
164	9 8TE	αα	REAL		9.	DEFINED REFS REFS	26.22	26	27	DEFINED 31	32	38		
224	EFKA	α α :	REAL	ARRAY	9. 9	DEF INED	n ı	3*42	DEFINED	9.	7.2	33		35
162	1 2		INTEGER		:	REFS 38	36.0	21 21 DEFINED		•	4.31	7.32	25	3
165	D 000	:	INTEGER		NBLK	REFS DEFINED REFS	2.26	39			3.45			
- · ·	NON		INTEGER INTEGER INTEGER		NBLK NBLK NBLK	REFS SETS	•••							
162	NSAG	α =	REAL	ARRAY	NBLK	REFS 16 REFS	47.0	ะ	3•35	DEFINED	2	*		15
45 -	W K K	⊢ α α	INTEGER REAL REAL	ARRAY	NBLK NBLK	REFS REFS 11	• กฎ•	2.40	3•27	DEF INEO	•		•	2
INLINE	INLINE FUNCTIONS	α	TYPE	ARGS 1 INTRIN	DEF LINE	REFERENCES 19								
STATE 42 74 121 121	STATEMENT LABELS 42 3 42 3 74 5 121 6 147 8	ELS		DEF LINE 23 34 36 34 41 42	NE REFERENCES 18 22 24 25 25 29 36 40	INCES								
20 20 43 126	LABEL 2 4 7	• •	INDEX	FROM-TO 18 23 24 35 36 41	LENGTH 218 618 208	PROPERTIES OPT OPT OPT	EXITS							
СОННО	COMMON BLOCKS		LENGTH 8	MEMBERS .	- BIAS NAME (LENGTH) 0 NOG (1) 3 NX (1) 6 NOSG (1)	E(LENGTH) (1) (1)		N X X X X X X X X X X X X X X X X X X X	888		2 NPT	88		
STATISTICS PROGRAM CM LABEL	STICS SPAM LEN	COMMO	ATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH	2748	188									

SUBROUT	SUBROUTINE COPY	74/74	OPT=0 ROUND=+/ TRACE	10=+/ TRACE		FTN 4.6.420	450	11/20/60	13.54.00	PAGE	-
-		SUBPOUTINE COPY(NAME) DIMENSION DATA(20) NAME(3) LABEL(3) COMMON/IASLK/FACC.FACN.LT.1A	DPY (NAME) TA (20) •NAME (3) . LABEL (3	_						
v	20	DATA IDSCITHS/ BEWIND 5 REWIND 10 REWIND 10 REWIND 10 REWIND 10	105.LABEL.F	ACC .FACN.L	7.1A						
0.	200		NE.NAME (1))	60 10 50							
25	9 000		0523 GO TO 4 03 105 DATA	0							
50	9009		05C) GO TO 7 1 IOS. DATA 1 (NAME(3),J=	11.3)							
х.	3000	RETURN FORMAT(A1,384,36X,2F10,5,7X,212) FORMAT(1/1, 1944,43) FORMAT(1/1, VEHICLE",384," NOT FOUND IN VEHICLE DATA BANK") END	4,36x,2F10.5 44,43) EHICLE",3A4,	. 7X,212)	D IN VEHIC	CLE DATA 84	NK")				
SYMBOLI	C REFERE	SYMBOLIC REFERENCE MAP (R=3)									
ENTRY POINTS	DEF LINE	INE REFERENCES	ENCES								
4	SN TYPE PEAL PEAL REAL INTEGER INTEGER	ARRAY	RELOCATION IABLK IABLK IABLK	REFS REFS REFS REFS	2. 3. 3. 3.	15 OEF INED OEF INED OEF INED	20 8 8 0 8	DEF INED	11	•	
176 105 200 J 225 LAHEL 2 LT 0 NAME	INTEGER INTEGER INTEGER INTEGER INTEGER	ER ER ARRAY ER ARRAY	IABLK F.P.	REFS 18 REFS DEFINED REFS REFS REFS	4 42266	15 19 11 0EF INED 11	19 DEFINED DEFINED 22	20 4 4 B B B B B B B B B B B B B B B B B	DEFINEO	•	
FILE NAMES TAPE10 TAPE5 TAPE7 TAPE8	FMT FMT FMT		READS WRITES WRITES	20 15 22	13 MOTION MOTION	6 N 9	M0110M	•			

PAGE									
00.								8	
13.54								2 1.7	
09/02/77 13-54-00								2	
FTN 4.6.420						20		3	
								1 FACN	
						18	EXITS EXT REFS		
OPT=0 ROUND=+/ TRACE						15	PROPERTIES INSTACK	16ТН)	
*=QNNO	NCES 9	REFERENCES		• 0				11)	
0PT=0 A	REFERENCES		22	2.2	51	72	LENGTH 68 48	BIAS NA O FACC 3 IA	156
74/74	ARGS 1	DEF LINE	222	181	2,5	28.5	FROM-TO 10 12 22 22	MEMBERS - BIAS NAME(LENGTH) 0 FACC (1) 3 IA (1)	2348
		INACTIVE					ii.		ENGTH
INE COPY	TYPE				TW.	FIT	INDEX	LENGTH	NON
SUBROUTIN		STATEMENT LABELS	300	000			LABEL 200	3LOCKS TABLK	ATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH
o,	EXTERNALS EOF	STATEMEN 25	009			163	1,000 L	COMMON BLOCKS IABLK	STATISTICS PROGRAM L CM LABELE

OVERLAY (LIFE . 1 . 0)

PROGRAM PACKET

0

15

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PAGE

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25000000.22500000.100000000.440000000.200000000

DATA CHAN, CHOLAN, CINCHA, CHORAN, STAMDEST, VESSY CHMBIN, BLANK, CH

1. / TC/4H LIGH, CHMEDI A CHEAV, TA/ HA. 1HB. 1HC. 1HD. 1HE. 1HF/

2.0ESC/2HLC/.EATIT/ZHNO.4HPAVE.3HPA.2HNO.3HYES.2HFD/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   UNR.ZWI(13.4)
COMMON /MANLK/ JMAN,MLYST,NYOO(20),JXX(20,20)
COMMON/MIXHLK/SIOREI(10:10),STOREZ(10:10),COVRGD(10:20),IMIX
COMMON/MIXHLK/ NOG.NOH,NT/NX.NY.NOD.NOSG.XK
COMMON/NHLK/ NOG.NOH,NT/NX.NY.NOD.NOSG.XK
COMMON/PRVNI/ICYCLE.FACTRI.FACTR2.FRSTSL,COSTR.NRG.REPRG.
• IRG. CRSL.PTCH.CLNDRN,JCYCLE,CLNSWP,SLCT.COSTF.NFL,REPFL,IFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMMON /RLMV/ ATYPE(3,10),NOACFT(50,10)
COMMON /RL1/ KT,K4.EARTHWK.ADENT(3),FACTOR
COMMON /RL2/ AAME(5),AOCATE(8), ADSCRP(30,10),DSCRPT(3,50),CHAR(7,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMON /SA/ALOS-WOS
COMMON /SCANZ/ ENIITY(20),NR, MODE,VALUE,NCHAR,IO.ALIST
I (30),ALIST(30),ALIST(30),NLIST,SION,SIVE,NERR
COMMON /SCANZ/ JOL,NB/TR(10),TCY(50)
COMMON /SCANZ/ JOL,NB/TR(10),TCY(50)
INTEGER GRM.ALIST.BLIST.CLIST.FLLST.FLEXVAL.FOLD: (10) .RDLD2(10) DIMENSION BTAR(6).HBOND(3).HFPM(4).HLIST(3.32).GLIST(4.8) ... TC(3) .TA(6) .RLIST(4).EATIT(6) ... TC(3) .TA(6) .REPRG(10.2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMON /DANBLKZ/IDGWTO.IDIPO.EPO.DLO.PERMO.M30.LENGTMO.CAVCSTO.
IFLCSTO.PIPCSIO.SLO.RNO.NOUTO.LOUTO
COMMON /AFCON/ IFCON
COMMON /MALK/ HH(10).TH(20)
COMMON /LCY/ AXK.YK.IRY(20).FAC.LS.XCBR.XSTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMON /TYPBK/ LMH.LFUNC
EQUIVALENCE (VALUE.IVALUE).(ENTITY!!).EMATCH.MATCH)
DATA PDLD1/11.190.3500.49000.350000.1750000.770000.25000000.
17000000.182500000.490L02/3100.13500.59000.250000.1150000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMON /LYTD/ NNAT, YCBR(10,4), NCOM, ZCBR(10.6), NSBB, XMT(10,6),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /.HSAG.WGCM/4HNSAG.4HWGCM/.HBOND/4HPART.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMON /PRVNI)/ ISKIP.JISKIP.1VM
COMMON /HESTR/ IMMN.NUMS.NOO(10),CSTRT(10.6)
COMMON /HESTR/ IRES: JRES:
ATYPE: JIYPE, ADENT= IDENT, AMME NAME AOCATE= LOCATE,
                                                                                                                                                                                                                                                                                                                         COMMON MASALKTIBTE, FDE, BTE, GBM
COMMON ACTINAL CCCST (50,10.2)
COMMON ACTINAL CCCST (50,10.2)
COMMON ACTINAL ACTINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMON 7009K/ ID.ITY.DT20.DT
COMMON 700H/ MNT
COMMON 70PNBLK/ DRNCST.DRAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMON JIYP/ NHIGID.NFLEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMMON/RUDLOD/IDR.LZ.10F
                                                                                                                                                                                                                                                                                   COMMON / AMBLK / MXN. 18N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADSCRP = IDSCRPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   150)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         UU
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4HUNBO.4HBOTH/,HNONE/4HNONE/,STRA/4HSTRA/,HNORM,I DRY/4HNORM,3HDRY /,HCalc,HREad/4HCalc,4HREad/,HFPM/4HSUBG,4HCOMP,4HSUBB,4HBASE/, SCHE/4HSCHE/,RLIST/ 3HRIC,3HROS,3HFIC,3HFOS/,IAVAL,IBVAL/2HFI, 2HRI/	DEFINES DSCRPT (3A10) (3.32) ((H.157(1),1=1,3),J=1,27) / 10HRIGID PAVE, 4HHENT, 1H .	PH WRITTEN	47. IT	IOMSIXTH COMP. IOMACTED SUBG. 6HMADE . IDMSENSU. 6HBGRADE. 10HEIGHTH COM. IOMPACTED SUB. 6HGRADE . IOMTENTH COMP. 10H	. 10H INST SUBB. SHASE . 1H IRO SUBB. SHASE . 1H . 10HFOU	AVERTIT SO, SPREAMENT OF A LOWELGAIN SOBE STATE OF A JUMNING HE SOBE SES A THE A JUMNING HE SOBE A SHARE A THE A STATE OF A STATE A ST	FLEXIB. 10HE PAVEMEN. SHI BASE, 10HPDUT., 10HPDUTINE MA. 9HINTENANCE, 1H , 10HVEF	TO DEFINE CHARACTERISTICS (744) CHAR(7.50)	ပ	S.4HEGME.4HNT .4HFIFT.	Y OF TERMS	ALI	CFP OFFICE NOMENTO	TI CFS	53 34 755	A0000	0050	2010	200	018 23	25 IHIO 27	FD 29	~	B L I S T (FO - RETU)
2 4HUNBO.4HBG 3 7.HCALC.HRB 4 SCHE/4HSCHB 5 2HRI/	HLIST DEFINES DS HLIST (3.32) DATA (HLIST(I.	2 10HDIJMMY. 13 BOND. 10HR	5 10HPACTED	SUBG. SHMADE . BH CO. 10HMPACTED 9DE . 10HNINETH C	ZASE . 1H .	5. 5HBASE .		3	DATA 4HGMEN	4HT	4 4HTH S.4HE	AI DHANIMEDTA	EART	BOND	CLIM	COND	58	GYTO	2					
	000							υ			v	υc	, _U		Ų	v	υ	o	0	oo	 	ى ر	vv	000

PROGRAM PACKET	FPMP	0PT=0 RO	OPT=0 ROUND=+/ TRACE		FTN 4.6.420		09/02/77 13.54.00	PAGE
		102	PFP	114	96	122		
0.05		104	20.	116	MIFO	124		
MCA		105	FP	117	ORFP	125		
SMC		106	C	9 0	MTRO	126		
IF		109	Đ.	120	5522	128		
Z		109			14	129		
200		110			503	061		
NO8		112						
8		113						
				•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
			C L I S T	(RH - 2)				
X		201	90, 9		201	512		
DCA		202	8008	212	200	221		
501		204	POL	214	203	222		
STFP		205	9	215	Sos	223		
		506	ВЬВ	216	N.S	554		
ST		207	4	712		522		
2 0		208	RSPR	218	Suga	226		
001		502			1 ME	227		
MAND		211				229		
NERR= 0	0	:						
WRITE (10,902)	10.902	•						
FORMAT (1H1)	CHI							
O NO CHILD								
ILACIE E	•							
FACTO	20.02							
1000	10.00 F=7							
CRSI =0								
CLNSWP	0.0							
SLCT=0.41	14.							
FACTR2=0.	=0=							
PTCH=0.02	.02							
FACTR3=2.	=2.							
C051F=	. 0							
NFL=1								
COSTR=	.0							
NRG=1								
186=0								
IFL=0								
SCLPOP=0.01	=0.01							
GET THE	NEXT	ENTRY						
CALL P	AHSE (E	NTITY . MODE	CALL PARSE (ENTITY . MODE . VALUE . NCHAR)					
60 10	(46.46	.50.50.46.	16.46.46.44)	MODE				
CALL RE	LINE		CALL POLINE					
60 10 42	~							
NW= (NCHAR+3) /4	148.3)	1						
IT IMODE	1101	IF (MODE . ED. 1) VALUE = IVALUE	IVALUE					
NERR N	ERR .	-						

1 2 60 175 C EN	
v	1 2044)
	WITH IS A LABEL OR NAME
50 IF	IF (MATCH -LT. IAVAL) GO TO 475
IF	F (MATCH .LT. 18VAL) GO TO 480
00	D0 455 1=1,NL1ST
180	IF (MATCH .EQ. CLIST(1)) GO TO 460
02 554	CONTINUE
	60 T0 S6
740 IL	ILOC= I
	CALL PAPSF (ENTITY, MODE, VALUE, NCHAR)
	IF (MODE .LT. 9) GO TO 463
CAI	CALL POLINE
09	60 10 461
463 1F	IF (MODE - 2) 462,465,466
	VALUE= IVALUE
190 465 1F	IF((ILOC.LT.12).AND.(ILOC.NE.8.AND.ILOC.NE.5))GO TO 468
	60 10 (201,299,203,204,205,299,207,208,209,210,211,212,213,214,215
-	1 .216.217.218.219.220.221.222.223.224.299.226.221.299.229.2991.
2 1	2 ILOC

| If [ILOC. T7.13.aND.MODE.NE.6) GO TO 64
| If [ILOC. F0.24).aND.(MODE.NE.6)) GO TO 64
| If (ILOC. F0.24).aND.(MODE.NE.6)) GO TO 64
| If (ILOC. F0.29.aND.MODE.NE.6) GO TO 64
| If (ILOC. F0.20.10.MO.(MODE.NE.6)) GO TO 64
| WRITE (IO.905) ALIST(ILOC)
| FORMAT (SANDATA DEFINING THE VARIABLE .A4.26H IS NOT IN THE PROPE NERR . 1
| GO TO 43
| F1 (MATCH .EG. BLIST(!)) GO TO 482
| CONTINUE

IF (EMATCH, EO. HCF) IC=4	C CALCULATION TYPE		IF (EMATCH-EG.DESC) ID=2	IF (10) 56.56.42	C DESIGN.RESTRICTION	IREST 0	E0. RIGI)	IF (EMATCH .EQ. FLEX) IREST= 3	56,56,42	DES16 N	0 17	THE CENT OF SECOND STATE OF SECOND STATE OF SECOND	IF (EMAICH - FU. FLEA) 1178 C	CRACKSEALING, FI EXTRI F, DAVEMENT	0.0	C DRAINAGE	11	DPA IN=VALUE	000	384 UU 387 2446 GATTITION OF TATALLY OF TA	385 CONTINUE		CALL PARSE (ENTITY, MODE, VALUE, NCHAR)	387 IVALUE=(VALUE+0.001)	10100	THE STATE STATE OF ST	13	C CONCRETE FLEXURAL STRENGTH	14 XSTR= VALUE	60 10 42	15 FOCEVALIF	C COMPACTED. SUBGRADE (I= 8 TO NCOM +7)	16 IVALUE = VALUE + 0.001	IF (IVALUE .GT. NCOM) GO TO 394	I = IVALUE + 7	396 CALL PARSE (ENTITY MODE . VALUE . NCHAR)	CALL POLINE	307 15 (MODE - FO. 1) VALUE TVALUE	CALL CTABLE (1.J)	60 10 43	394 WRITE(10.912) IVALUE
		290				562				300				305				310				315	;		-	350			325			330				315			340		

	PROGRAM PACKET	ET 74/74 OPT=0 ROUND=*/ TRACE FTN 4.6.420 09/02/77 13.54.00
345	216	FORMATI(*OFFRROR. LESS THAN*, IS.* ITEMS HAVE BEEN DEFINED FOR THE C NORRESPONDING MATERIAL IN THE MATERIAL PROPERTIES TABLE.*) NERRE NERR * 1 GO TO 42
350	376	CONCRETE.STRESSES.OVER.ASHPHALT 1 = 0 1 = 1 + 1 STORE? (IMIX.1) = VALUE
355	378 378 976	CALL PAMSF (ENTITY, MODE, VALUE, NCMAR) IF (MODE, LT, 9) GO TO 378 CALL ROLINE GO TO 377 IF (MODE - 2) 379,376,374 GO TO 375
360	0.18 370	CONCRETE.STRESSES.ON.GRADE = 0
365	372	IF (MODE .LT. 9) GO TO 372 CALL POLINE GO TO 1 IF (MODE - 2) 373,370,374
370	374	60 FG 370 IF (1.FG. 10) GO TO 43 NERMS NEW - 1 WPITE(10.91)) I FORMAT(*OFRROR. 10 STRESSES ARE REQUIRED.**110.* STRESSES WERE RE
375	ر ا	140*) 60 TO 43 61 AY.COSTS.FLEXIBLE.OVERLAY 60 TO 42
380	2° 2° 512	DISCOUNT 05C=VALUE 60 TO 42 0ELAY.COSTS.RIGIO.OVERLAY 0CCR= VALUE
385	28 3	60 TO 42 DESIGN LIFE JOL + VALUE + 0.001 OF SIGN INDEX.PIGID
390	, E	1VALUE=VALUE 1VALUE=VALUE 1VALUE=VALUE 1VALUE=1VALUE/JUL IF (IVALUE = YALUE/JUL
395	87 C 24	NOACFT(1.1MIX)=IVALUE 60 TO 42 CLASS.OF.ROAD 00 293 1=1.6 IF (EMATCH.EQ.TA(I)) 60 TO 294

13.54.00																																															
11/20/60																																															
FTN 4.6+420																																															
CKET 74/74 OPT=0 ROUND=4/ TRACE	or materials of					ELEXAN - DOLOSTIDES	FI FYAL -FI FYAL / 101	ברי אוריי רבאארי סטר	100 1 1 1 1 20 C		DITH OF STAN THICKNESS			FORCE DECISION		1F (FMATCH FO. HCALC) IFD=2	IF (EMATCH NE HREAD) GO TO 388	160=1	CALL PARSE (ENTITY, MODE, VALUE, NCHAR)	1F (MODE-2) 291,292,56								BLIST			60 10 43	1 00 345 1-1 4					CALL PLABAY(I.YCBK.NNAT)	COMPACTED, SUBGRADE. NCOM			3 CALL PLABAY (I.XMI.NSBB)	BASE: NH		1F (400E		NERRE NERR+1	WRITE(10.901) (ENTITY(J).Jal.NW)
PROGRAM PACKET	90	3	594	U	52							, ,	13		, 00						20	202		ARR	3	30	U	U	U	199	•	3.	2	345	346	ູ່	156	U	352	ບ່	353	U	354		357		
	***				405				***	27.				416				420					529				430					433			077				574			450				455	

FIN 4.6-420 09/02/77 13.54.00									EQUENCE**/*1X*20A4)												/								
ET 74/74 OPT=0 ROUND=#/ TRACE	GO TO 101 CALL POLINE	IVALUE = VALUE + 0.001 NR= IVALUE	IF (NR .GT. NB) NB= NR CALL PAMSE (MITTY, MODE, VALUE, NCHAR)	IF (MODE - 2) 300,301,302 IF (MODE .LT. 9) GO TO 367 CALL VIEW TO 300	50 10 354 VALIE IVALUE	CALL PARSE (ENTITY, MODE, VALUE, NCHAR) IF (MODE, LI. 9) GO TO 364	CALL MOLINE GA TO 363 F (MONE GET, 2) GO TO 101	NA= (NCHAR+3)/4	METALLICATION CONTINUED TO THE SEQUENCE * / 1 1 x + 20 A 4) NEBB NEBB NEBB NEBB NEBB NEBB NEBB NEB	60 10 363	NERRE NERR + 1	##ITE(IO+901) (ENTITY(J)+C#1+NW) GO TO 101	GRANULAR BASE . MATERIAL	IF (EMATCH .EQ. WGCM) GBM= 1	IF (EMATCH .EQ. HSAG) GBM= 2 IF (GBM) 56.56.42	GENERAL DESCRIPTION DO 449 I=1,10	J= 0	NK= (NCHAR+3)/4	IF (NW . 61. 14) 60 TO 438	II= 15-NW DO 434 12=1,11	J=J+1 ADSCRP(J+1) = ALANK	00 436 12=1+NW	ADSCRP(J.1) = ENTITY(I2)	IF (NW .6T. 30-L) NE 30-L		ADSCRP(J,1)= ENTITY(12)	11=1-1	DO 442 J=11.30 ADSCRP(J.1) = BLANK	CALL PARSE (ENTITY, MODE, VALUE, NCHAR) IF (MODE .LT. 9) GO TO 446
PROGRAM PACKET	358	356	359	362	350	363	346	3	606		367		J.	103		ر 104					434	435	436	438		044		442	777
PR068		094		597		410		475			084		. 387	60		064			567			200			205		;	210	

PRO	PROGRAM PACKET	ET 74/74 OPT=0 ROUND=*/ TRACE	FTN 4.6.420	09/02/77 13.54.00	13.54.00
515	1 1 1 1 1 1 0 00 0	CALL POLINE 60 TO 444 CONTINUE CONTINUE			
250	450	FOIL			
525	106				
530	108	IF(EMATCH .Eg. YES) JMAN= 1 IF(EMATCH .Eg. HNO) JMAN= 2 IF(JMAN) 56.56.42 INTIAL FAILURE IFCOM= 0			
535	109	IF (EMATCH.EQ. HNO) IFCON= 1 IF (EMATCH.EQ. YES) IFCON= 2 IF (EMATCH) 56.56.42 IDENTIFICATION.NUMBER NW= (NCARP.3) /4			
075	454	If NW -01-31 NW=3 DO 424 [=1:NW DDENT[1] = ENTITY(I) IF (NW -6T-2) GO TO 42 NW = NW -			
245	426 110				
950	Į,	CALL PAYSEENTITY, MUDE, VALUE, NCHAK) NF (= 1 VALUE 60 TO 42 LOCATION, OF . 88 SE			
555	428	15 (1) (1) (2) (3) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7			
0995	430	00 430 1=NW.8 AOCATE(1) = BLANK GO TO 42 NAME. OF 485E			
595	420	IF (NW .GT. 5) NW = 5 DO 420 I=1.NW AAME(I)= ENTITY(I) IF (NW .GT. 4) GO TO 42 NW=NW+1			
210	455	AAME(I)= BLANK			

	PROGRAM PACKET	74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6.420	11/20/60	13.54.00
	υ	GO TO 42 OVERLAY.RESTRICTION			
575	113	JREST= 0 IF (EWATCH .EO. HNONE) JREST=1 IF (EWATCH .EO. RIGI) JREST=2 IF (EWATCH .EO. FLEX) JREST=3			
	c 114				
280	2115				
585	813 813 814	PEPRO (1.1) = VALUE TE (MODE - 2) 813 * 814 * 46 VALUE = IVALUE FEPRO (1.2) = VALUE FEPRO (1.2) = VALUE			
280		IF (MODE.EG.9) CALL ROLINE IF (MODE.EG.9) CALL PARSE (ENTITY.MODE.VALUE.NCHAR) IF (MODE.GT.2) IRG=I	â		
295	, r	F(MODE.EO.1)VALUE=IVALUE GO TO A12 FLEXIBLE OVERLAY CALL (TABLE (7.23)			
009	, i	GO TO 43 FLEXIGLE.PAVEMENT CALL CTAHLE(3.19) GO TO 43			
509	118	LUADISCRETEGORY I F (MODE . GT. 2) GO TO 90 LMH = VALUE . 0.001 GO TO 42 GO 44 I=1.3 I F (AMOTH . GO TO 95			
610	\$ \$	CONTINUE 60 TO 56 LMH=1 60 TO 42			
615	120				
029	121	FLEXIMEE.PAVEMENT.BASE 1/VALUE - VALUE - 0.0001 1F(1/ALUE.GT.NB).A.(10.EQ.3)) GO TO 394 1 = IVALUE - NCOM - NSBB + 7 0 = IVALUE - 43			
929	122	GEOGRAPHICAL, FACTOR GEOGRAPHICAL, FACTOR FACTOR= VALUE GO TO 42 OTHER, MAINTENANCE, RIGIDPAVEMENT			

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	PROGRAM PACKET	467 74/74	OPT=0 ROUND=+/ TRACE	/ TRACE	FTN 4.6.420	09/02/77 13.54.00	13.54.00	PAGE
589	716		IF(ENTITY(2) .EQ. SION)GO TO 317 IF(ENTITY(2) .EQ. SIVE)GO TO 318 CALL PARSE(ENTITY, MODE, VALUE, NCHAR) IF(EMATCH.EQ. 3HNFS) IUBC=1	0 317 0 318 E.NCHAR)				
069	318		If (EMATCh.EO.PHFS) IUBC=3 IF (LURC) 56.56.45 CALL PARSE (ENTITY, MODE.VALUE, NCHAR) IF (EMATCH.EO.PHFS) IUBC=2 IF (EMATCH.EO.PHFS) IUBC=4	E.NCHAR)				
\$69	502		IF(IURC) 56.55.42 SURFACE.TREATMENT.FLEXIBLE.PAVEMENT SLCT=VALUE 60 TO 42	PAVEMENT				
100	207 306 315 308 309		SUCHABLE 11FES 1F (EMATCH .NE. SCHE) GO TO 307 1F (EMATCH .NE. SCHE) GO TO 307 CALL PARSE (ENTITY, MODE, VALUE, NCHAR) 1F (MODE - 2) 309,308,314 1VALUE - VALUE • 0.001	307 E.NCHAR)				
705	310		J=0 NSG*=NSGY*1 CALL PAMSE(ENTITY*MODE.VALUE.NCMAR) IF MODE-2) 312-311,316 IVALUE= VALUE + 0.001	E.NCHAR)				
912	312	, , , ,	ALUE					
215	307		GO TO 306 IF(NSGY .EO. MLYST) GO TO 43 WREAL NERR! WRITE(10.904) MLYST.NSGY FORMATICOFFROR. NO.SUBBASE.SC	GO TO 306 ICHNSGY - EG. MLYST) GO TO 43 NERR= NERR-1 WRITE(10.904) MLYST.NSGY WROWATICFORMAL NO.SUBBASE.SCHEMES =*,110.* BUT ONLY*,110.* WERE	BUT ONLY*, 110.*	VERE E		
720	316	-	00 000 15 60 00 00 00 00 00 00 00 00 00 00 00 00					
725	208		TENANCE 18+10 1+48)					
735	209 209 321 322 323 324		TIMES.OF.OVERLAYS NUMS.OF.OVERLAYS NUMS.OF.OVERLAYS CALL PARSE(ENTITY.MODE.VALUE.NCHAR) IFMODE-2) 324.323.329 IVALUE VALUE • 0.001 J=IVALUE VUMS* NUMS* I	F. NCHAR)				

*

PAGE

GO TO 56 LFUNCS 1 GO TO 42 REPAIR.SCALES.POPOUTS.RIGIDPAVEMENT

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GO TO 160
IF (HODE - 2) 158,165,167
IF (HODE - 2) 158,165,167
WRITE (10,903) I,JDL,1
FORMAT (22HOWARNING, A TOTAL OF ,I4,50H VARIABLES HAVE BEEN SPECIF
IIED FOR YEARLY TRAFFIC. .,45H HOWEVER, THE DESIGN LIFE WAS SPECIF
31ED TO BE ,14, 7H YEARS, ,/52H THEREFORE, THE DESIGN LIFE HAS BEE
                                                                                                                                                                                                                   WRITE(10,910) NERR
FORMAT(1H0.110.* ERRORS MAVE BEEN ENCOUNTERED. JOB TERMINATED.*)
STOP 1011
COMPLETE CCCST ARRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         K = THE NUMBER OF THE FIRST SEGMENT CUMULATIVELY K = K + 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                  IF(13 .GT. 32) 13= 30
TRANSFER LABELS TO PROPER LOCATION IN DSCRPT
DO 402 [2=1.3
DO 402 [12=1.3
EXE K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IF (1 .EQ. NCOM+7) ISKP = ISKP +10-NCOM
IF (1 .EQ. NCOM+NSBB+7) ISKP = ISKP + 10-NSBB
IF (1 .EQ. NCOM+NSBB+NB+7) ISKP = ISKP + 2-NB
I3 = I3 + ISKP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             00 412 14= 1,11

IF(14, 61. 1) 60 TO 406

IF(CAPR(1,15) .EQ. BLANK) 60 TO 406

00 404 12=1,7

CHAR(12,K2)= CHAR(12,15)
CALL PARSE(ENTITY, WODE, VALUE, NCHAR)
IF (MODE, NE, 9) GO TO 164
CALL RDLINE
                                                                                                                                                                                                                                                                                                                         J= NCOM+NSBB+NB+12

00 414 I=1+J

1SKP= 1

CCCST(11-1.2) = K

II= NUM OF SEGMENTS FOR LINE I

II= CCCST(11-1.2) + 0.001

IF(II - LT - 1) GO TO 416

IS= I3+16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GO TO 412

DO 40A 12=1,4

CHAR(12,K2)= GLIST(12,14)

DO 410 12=5,7

CHAR(12,K2)= BLANK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IF (1 .EQ. J) GO TO 418
13= 15-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CONTINUE
RETURN
CONTINUE
IF (NERR.NE.0) GO TO 888
                                                                                                                                                                                                                                                                                               CCCST(4.1.1) = 0.
13= 1
                                                                                                                                                                                      60 TO 43
STOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    K2=K2+1
                                                                                                                                                                          JOL = 1
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418
                                                                                                              903
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	PROGRAM PACKET 74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6+420	11/20/60	09/02/77 13.54.00	PAGE	7
915	TRST=DSC-ESC-DSC-ESC ENDFILE 2 REWIND 2 IF (IFO.E0.1.AND.18TE.E0.3)18TE=4 IF (IFO.E0.2.AND.18TE.E0.3)18TE=5 IF (IFO.E0.2.AND.18TE.E0.3)18TE=5 IF (IFO.E0.2.AND.18TE.E0.3)18TE=5					
950	IF (DMAIN.E.C.O.)GO TO 77 READ(12.9999) IDGWTO.IDIPO.EPO.DLO.PERMO.H3O.LENGTHO.CAVCSTO. 1FILCSTO.PIPCSTO.SLO.HNO.NOUTO.LOUTO 9999 FORMAT(10x.2(I3).F4.3.F5.1.E0.2.F5.2.I5.3(F5.2).2(F5.4).I1.I3) REWIN 1	РЕРНО.Н30.LENGTHO.CAVCSTO. 15,3(F5,2),2(F5,4),11,13)				
925	9050 FORMAT(1H1-10(/)-56x-18H************************************	*****				
930	106 -	56X.18H************************************	ų			
435	JOST FORTALIST, 110. "DEFECTIVE PROSENTY", 145, F4.3, T10. "DERNORD WALEY 145, 13, T10. "DERNORD WALEY 145, 13, T10. "EFFECTIVE PROSENTY", 145, F4.3, T10. "DERNORD WALEY 145, 15, T10. "ENGINE", 145, 15, T10. "ENGINE", 145, 15, T10. "EXCAVATION COST", 4145, 15, T10. "EXCAVATION COST", 170. "EXCAVATION COST.", 170.	MACCATTO NOT THE NAME OF THE N	A IN			
0 7 6	5145-75-15-1104-104-105-105-8-4-715-75-4-71104-75-8-75-71104-75-8-75-8-75-8-75-8-75-8-75-8-75-8-75-	1455.11.7110."AVERAGE LENG	S + 1			
576	IC NUMBER OF NUMBER COS) FERTILATIONAL TINEAL FOOT". 195. 3"COST", T34,"OF PIPE (INCHES) (INCHES) PER LINE". //) 77 CALL CKDATA END	F LINES LINEAL FOOT"+195.	•			

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PROBLEM

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DETAILS

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SYMBOLIC REFERENCE MAP (R=3)

ENTRY POINTS DEF LINE REFERENCES
3 PACKET 2

PAGE 18		511				765 892									999 899															
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STATEMENT LABELS	ENT LA	IBELS		DEF LINE	REFERENCES						
3371	404			968	891	892					
	410			888	868						
3412	412			006	068	568					
34.27	* 1 4			500	0.00						
3457	418			911	901						
•	420			247	995						
0	727	INACTIVE	IVE	570							
00	454			541	240						
00	458			557	556						
0	430			561	260						
1631	434			664	167						
	436			205	200						
1645	438			204	767						
00	044			507	505						
1702	444			512	503	808	515				
1713	977			516	513						
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1726	450			520	516						
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143	460			143	180						
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157	463	INACI	1 16	188	185						
173	191			191	194						
165	465			190	188						
237	997			194	188						
25.3	475			261	177						
427	480			526	178						
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077	492			230	22.7						
424	484			235	232						
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795	486			237	235						
536	183			245	235	3.3					
543	687			243	238						
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2170	414			547	545						
2340	128	-0		638	059						
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3265				870	915						
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S		DEF LINE		REFERENCES								
T W		718	717									
FMT		222	195	122	243							
H		812	811									
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LW.		343	345		;							
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-		197 199	89	INSTACK	EXITS							
-		226 228	68	INSTACK	EXITS							
		256 258	109	140	24116							
		270 273	90	NOT PORT	EALLS							
		312 314	108	TAC	2117							
		394 395	99	INSTACK								
-		398 400	99	INSTACK	EXITS							
-		409 410	58	INSTACK								
-		436 418	89	INSTACK	EXITS							
-		490 518	1268		EXT REFS	EXITS	NOT	INNER				
¥ :		492 517	1178	• 00	EXT REFS	EXITS		INNER				
2 :		600	911	100								
20		505 507	911	100								
. 7		510 511	9	INSTACK								
-		540 541	28	INSTACK								
_		544 545	48	INSTACK								
-		556 557	85	INSTACK								
-		260 561	6	INSTACK								
۰.		546 567	28	INSTACK								
- ;		900 000	90	INSTACK	EXIIS							
c -		279 079	9 9	INSTACK	EXIIS							
		764 765	2 4	INSTACK								
		192 794	89	INSTACK	EXITS							
-		878 909	1518		EXITS	NOT INNER	œ					
12		887 888	108	THO								
1 It		890 900	508		NOT INNER							
12		893 894	108	THO								
12		896 897	92	INSTACK								
				:								
		MEMBERS	- BIAS NAME	E ILENGIA)		No.	:					
	v 4			33		F0E	33		0	BTE		
			3 GBM	::								
	6			3		ESC I	3		~	080	ê	
-	000			(1000)		9	3					
	v - -		0 TRST	33		2						

53								
PAGE								
00	ē	8888	(50) (1) (20) (20)	(200)	888888	100 E	a aa8a 8	â
13.54.00	0120	FP0 (1) H30 (1) F1LCST0(1) RNO (1)	2 TRY 24 XCGR 41 NCOM 103 XMT	2 NYOO (20) 200 COVRGD (200 2 NPT (1) 5 NOU (1)	COSTR 1146 CLNDRN CLNDRN SLCT REPFL	2 NOO (10) 2 NOO (10) 2 EARTHWK(1) 13 ADSCRP (300)	2 10F 11 MODE 14 10 15 CLIST 7 SIVE 2 TRL	2 IDRY
11/20/60	~	28.82	24 41 103	200 2	9 2 2 5 E	2 2 2 13	28 8 8 8 111	
FTN 4.6-420	9	22223	866 668		3282223		350 30 30 30 30 30 30 30 30 30 30 30 30 30	888 8
FTN 4	1 177	1 DRAIN (1) 1 IDIPO (1) 4 PERMO (1) 7 CAVCSTO(1) 10 SLO (1) 13 LOUTO (1)	10 TM 1 YK 23 LS 1 YCBH 102 NSBB		1 FACTR1 4 FHSTSL 7 REPRG 29 PTCH 32 CLNSWP 35 NFL		463 CHAR 1 LZ 1 WOS 20 NR 23 NCHAR 55 BLIST 116 510N	1 IUBC 1 NFLEX 1 LFUNC 0 MATCH
74/74 OPT=0 ROUND=+/ TRACE	MEMBERS - BIAS NAME (LENGTH) 0 10 (1) 3 01 (1)		0 IFCON (1) 0 MH (10) 0 AXK (1) 22 FAC (1) 25 X5TR (1) 0 NNAT (1) 42 ZCBH (60)		0 1CYCLE (1) 1 FACTR3 (1) 6 NPG (1) 28 GRSL (1) 31 JCYCLE (1) 34 COSTF (1)	ISKIP ISKIP CSTAN CSTAT IREST ATYPE K7 ADENT	DSCMPT IOR ALOS ENTITY VALUE ALIST NERR JOL	12 TCY (50) 0 5/90 (1) 0 NRIGID (1) 0 LMH (1) 0 LMH (1) 0 EMATCH (1) 0 IVALUE (1)
PROGRAM PACKET	LENGTH	14	30 26 176	422 401 8	88	57 2 530 7 813	1119	3 2 2 2 1 1
PROGE	COMMON 9LOCKS	DANBL K2 DANBL K2 DANBL K2	FCON HALK LCY LYTD	MANLK FIXBLK WGLK	PRVNI	PRVNT1 ROSTR RESTR RLI RL1	RODLOD SA SCAN2 SCAN3	SUBK TYP TYPBK EQUIV CLASSES ENTITY ENTITY ENTITY VALUE

73

-				
		BLOCK DATA MOATA	00002455	
	U	esson STARI SCAN PACKAGE exectescossecessessessessessesses	••••	
		LOGICAL IPRINT	00005460	
		COMMON/PARS/BUFRIJS).COL.ILABEL.INUNIT.IOUT.IPRINT.	00005461	
5		1 TAH (64) - JSTART (72) - JUMP - LIMIT - LIST (10) -	00005462	
		NARK MARKE NENT ON PRIATE SKIP NEIL	00005463	
		COMMON ACCAND FINITY(20) -NR. MODE -VALUE NCHAR IA ALIST		
		STONS		
		DATA COLVOLITABLI AND ININITALIZACIONISTA TRIBETA	777 0000	
91		1 1144/1000-22	00005465	
		21.20.21.19.27.5.40.	00005466	
		5.50.2.29.7.4.14.	00005467	
		31.32.800	00005468	
		0.9.10.1.11.12.28.0.15.0.	69750000	
3		7.0.16.17.33.	02750000	
:		75-01-56	00005471	
		DATA JUMPILLIMITATION MARKATON MARKWALON NENTAN		
			00005473	
		2 ENTITY/20+11 /		
50		DATA IA /9/.		
		A SION/4HSION/.SIVE/4HSIVE/.NLIST/ 30 /.		
		1 ALIST / 4HEART.4HBOND.4HRT .4HCLIM.4HCOND.4HCT .4HDR .4HDTYP.		
		. 4HDIR . 4HCOR . 4HDIF .		
52				
		DATA ALIST / 4HFPMP,4H ,4HGBM ,4HGD ,4HMCA ,4HGMC ,		
		.4HOMFP.4HLGB .4HNOR .4HOR		
		30H4. 84HFPB .4HGF		
		.4HPT .4HL0S /.		
30		14.		
		. 4HWAND, 4HSJCR, 4HROPB, 4HROU , 4HRP		
		_		
		HSUB9.4HT IME.4H		
		ENO.	00005474	

RELOCATION	SCANZ	SCANZ	PARS	SCANZ	PARS	SCANZ	SCANZ	PARS	PARS	PARS	PARS	PARS	PARS	SAAG	PARS
PE	2	A	RR	RRA		ARRAY						RRA	ARHAY		
TYPE	PEAL	REAL	REAL	PEAL	PEAL	REAL	LEGE	IEGE	-	TEGE		INTEGER	EG	INTEGER	EG
ES SN	ALIST	BLIST	BUFR	CLIST	COL	ENTITY	1 A I	ILABEL	INUNIT	IOUT	a	ITAB	JSTART	JUMP	TINI
RIABL	31	67 BL	•	125		0	30	50	21	22	23				235

DEFINED

TYPE NITEGER PARS INTEGER PARS PARS PARS INTEGER PARS PARS PARS PARS PARS PARS PARS PAR	TYPE	BLOCK DATA MDATA	ATA	74/74	0PT=0 RC	OPT=0 ROUND =+/ TRACE		FTN 4.6.420		11/20/60	09/05/77 13.54.00	PAGE
INTEGER ARRAY PARS REFS 4 DEFINED 17	INTEGER ARRAY PARS REFS 4 DEFINED 17		3d	PEL	OCATION							
INTEGER PARS REFS 4 DEFINED 17	INTEGER PARS REFS 4 DEFINED 17	INI	EGER	ARRAY	PARS	REFS	4					
INTEGER SCANZ REFS 4 DEFINED 17	INTEGER PARS REFS 4 DEFINED 17	INI	EGER		PARS	REFS	4	DEF INEO	17			
INTEGER SCANZ REFS 7 17 17 17 17 17 17 17	INTEGER SCANZ REFS 7 11 15 17 11 17 11 11	INI	EGER		PARS	REFS	4	OEF INEO	17			
INTEGER SCANZ REFS 7 DEFINED 17	INTEGER SCAN2 REFS 7 DEFINED 17	INI	EGER		SCANZ	REFS	1					
INTEGER	INTEGER	INI	EGER		SCANZ	REFS	1					
INTEGER SCANZ REFS 7 DEFINED 17	INTEGER	INI	EGER		PARS	REFS	4	OEF INED	11			
INTEGER PARS REFS 4 DEFINED 17	INTEGER	INI	EGER		SCANZ	REFS	1					
INTEGER SCANZ REFS 7 DEFINED 20	INTEGER SCANZ REFS 7 DEFINED 20	LVI	EGER		PARS	REFS	4	DEF INED	11			
NATEGER SCANZ REFS 4 DEFINED 17	NATEGER SCANZ REFS 7 DEFINED 17	INI	EGER		SCANZ	REFS	1	DEF INED	50			
PEAL PARS REFS 4 DEFINED 17	REAL PARS REFS 4 DEFINED 17 REAL SCANZ REFS 4 DEFINED 20 REAL SCANZ REFS 7 DEFINED 20 REAL STANT (1) 173 174 REAL STANT (1) 174	INI	EGER		SCANZ	REFS	1					
REAL PARS REFS 4 DEFINED 20 REAL SCANZ REFS 7 DEFINED 20 REAL 175 DEFINED 20 17 18 REAL 175 DEFINED 20 17 19 10 REAL 175 DEFINED 20 17 19 10	REAL SCANZ REFS 4 DEFINED 20 REAL SCANZ REFS 7 DEFINED 17 REAL SCANZ REFS	PEA	,		PARS	REFS	4	DEF INED	11			
REAL SCANZ REFS 7 DEFINED 20	SCANZ REFS		_		PARS	REFS	4	DEF INEO	17			
PEAL SCANZ REFS 7 DEFINED 20	REAL SCANZ REFS 7 DEFINED 20 REAL SCANZ REFS 4 DEFINED 17 REAL SCANZ REFS 7 REFS 4 DEFINED 20 REFS 7 DEFINED 20 REFS 7 DEFINED 20 REFS 7 DEFINED 17 RESCANZ REFS 7 REFS 7 DEFINED 17 RESCANZ REFS 7		-		SCANZ	REFS	1	DEFINED	20			
PARS REFS 4 DEFINED 17	REAL PARS REFS 4 DEFINED 17 LENGTH MEMBERS ~ BIAS NAME (LENGTH) 15 COL (1) 16 175 UUFR (15) 18 IOUT (1) 19 175 UUFR (15) 18 IOUT (1) 19 20 ITAB (64) 84 JSTART (2) 168 157 LIMIT (1) 170 168 168 159 MARKW (1) 171 171 171 119 0 ENTITY (20) 20 NR (1) 21 22 VALUE (1) 174 21 23 ALIST (30) 55 BLIST (30) 85 119 NRR (1) 117 24 25 ALIST (1) 117 24 25 ALIST (1) 117 117 110 NR (1) 117 24 25 ALIST (1)	REA			SCANZ	REFS	1	DEF INED	50			
FEAL SCANZ REFS 7 LENGTH MEMBERS ~ BIAS NAME (LENGTH) 15 COL (1) 16 ILABEL 175 17 INUNIT (1) 18 IOUT (1) 19 IPHINT 20 ITAB (64) 84 JSTART (72) 156 JUMP 157 LIMIT (1) 159 HARK (1) 170 NET (10) 168 HARK 157 LIMIT (1) 170 NET (1) 170 NE	FEAL SCANZ REFS 7 -ENGTH MEMBERS ~ BIAS NAME(LENGTH) 15 COL (1) 16 175 0 UVER (15) 18 100T (1) 19 20 1TAB (64) 64 4 START (72) 156 157 LIMIT (1) 159 LIST (10) 168 169 MARKW (1) 170 NENT (1) 171 119 0 ENTITY (20) 20 NENT (1) 21 22 VALUE (1) 20 NCHAR (1) 21 23 ALIST (30) 23 NCHAR (1) 21 115 NLIST (1) 116 SION (1) 117 1174 118 NERR (1) 116 SION (1) 117 1174 1174 1175 1177 11	PFA			PARS	REFS	4	DEFINED	17			
175 MEMBERS - BIAS NAME(LENGTH) 15 COL (1) 16 ILABEL 175 17 INUNIT (1) 18 IOUT (1) 19 IPHINT 19	175 MEMBERS - BIAS NAME(LENGTH) 15 COL (1) 16 175 17 INUNIT (1) 20 178 17 (1) 19 17 INUNIT (1) 84 JSTART (72) 156 17 LINIT (1) 174 17 (1) 174 18 MARKW (1) 170 NENT (1) 171 19 MARKW (1) 173 SKIP (1) 171 19 CENTITY (20) 20 NCMAR (1) 21 22 VALUE (1) 20 NCMAR (1) 22 24 ALIST (1) 116 SION (1) 117 118 NERR (1) 116 SION (1) 117 119 NLIST (1) 116 SION (1) 117 110 NERR (1) 117 111 NERR (1) 118 SION (1) 117 111 NERR (1) 118 SION (1) 117 111 NERR (1) 118 NERR (1) 118 111 NERR (1) 118 NERR (1) 118 NERR (1) 111 NERR (1) 118 NERR (1) 118 NERR (1) 111 NERR (1) 118 NERR (1) 118 NERR (1) 111 NERR (1) 118 NERR (1) 118 NERR (1) 111 NERR (1) 118 NERR (1) 118 NERR (1) 118 NERR (1) 111 NERR (1) 118 N				SCANZ	REFS	7					
175 0 BUFR 15 15 COL (1) 16 ILABEL 17 INUNIT (1) 18 IOUT (1) 19 IPHINT 20 ITAB (64) 64 JSTART 72 156 JUMP 157 LITT (1) 158 LIST (10) 16 MARK 169 MARK (1) 170 NENT (1) 171 ON 17	175 0 8UFR (15) 15 COL (1) 16 17 INUNIT (1) 84 JSTART (72) 20 17 INUNIT (1) 17 END (1) 18 END (1) 1			MEMBERS	BIAS NAM	E (LENGTH)						
17 INUNIT (1) 18 IOUT (1) 19 IPHINT	17 INUNIT (1) 18 IDUT (1) 19 20 1748 (64) 84 JSTART (72) 156 157 LIMIT (1) 158 LIST (10) 168 169 MARKW (1) 173 SKIP (1) 171 STATE (1) 174 STATE (1)		75		O BUFR	(15)		COL		16	ILABEL	•
17 17 17 17 17 17 17 17	20 1748 (64) 84 JSTART (72) 156 157 LMIT (1) 159 LIST (10) 168 157 LMIT (1) 179 NENT (1) 171 171 171 171 171 171 171 171 171 1				TINUNI T	(1)		TOOL		19	IPHINI	
157 LIMIT (1) 158 LIST (10) 168 MARK 169 MARKW (1) 170 NENT (1) 171 ON 170 NENT (1) 171 ON 171 NENT (1) 171 ON 171 NEIL 22 VALUE (1) 23 NCMAR (1) 21 MODE 25 ALIST (30) 55 BLIST (30) 85 CLIST 118 NERR (1) 116 SION (1) 117 SIVE	119 157 LIMIT (1) 158 LIST (10) 168 159 MARKW (1) 170 NENT (1) 171 172 PSTATE (20) 20 NR (1) 21 22 VALUE (1) 23 NCHAR (1) 21 25 ALIST (30) 55 BLIST (30) 85 115 NLIST (1) 116 SION (1) 117 118 NERR (1) 116 SION (1) 117 119 08 0				DO LTAR	(64)		ISTART		156	MIND	•
159 MARKW (1) 170 NENT (1) 171 ON 172 PSTATE (1) 173 SKIP (1) 174 NF IL 22 VALUE (1) 23 NCHAR (1) 24 IA 25 ALIST (30) 55 BLIST (30) 85 CLIST 118 NLIST (1) 116 SION (1) 117 SIVE 118 NERR (1) 116 SION (1) 117 SIVE 118 NERR (1) 118 NERR (1) 118 NERR (1) 117 SIVE 118 NERR (1)	119 170 NENT (1) 171 NENT (1) 171 171 171 171 171 171 171 171 171 1			~	TIMIT	(2)	1	151		168	MAKK	•
172 PSTATE (1) 173 SKIP (1) 174 NFIL 2 VALUE (1) 20 NR (1) 21 MODE 22 VALUE (1) 25 ALIST (1) 25 ALIST (1) 55 BLIST (1) 85 CLIST 115 NLIST (1) 116 SION (1) 117 SIVE 08 0	119 0 ENTITY (20) 20 NR (1) 21 22 VALUE (1) 23 NCHAR (1) 24 VALUE (1) 55 BLIST (30) 85 115 NLIST (1) 116 SION (1) 117 117 118 NERR (1) 116 SION (1) 117 117 117 118 NERR (1) 117 117 117 117 117 117 117 117 117 1			7	SO MARKE	(1)	-	NENT		171	NO	•
119	119			-	72 PSTATE	3	-	SKIP		174	NF IL	-
22 VALUE (1) 23 NCMAR (1) 24 IA 25 ALIST (30) 55 BLIST (30) 85 CLIST 115 NLIST (1) 116 SION (1) 117 SIVE 118 NERR (1) 117 SIVE	22 VALUE (1) 23 NCHAR (1) 24 25 ALIST (30) 85 BLIST (30) 85 BLIST (30) 85 BLIST (30) 85 BLIST (30) 87 BLIST (30) 8		10		O ENTITY	(50)		N.		12	MODE	•
25 ALIST (30) 55 BLIST (30) 85 CLIST (1) 116 SION (1) 117 SIVE 118 NERR (1) 117 SIVE 009 0	25 ALIST (30) 55 BLIST (30) 85 115 NLIST (1) 116 SION (1) 117 118 NERR (1) 116 SION (1) 117 10 NERR (1) 117 10 NERR (1) 117 118 NERR (1) 117 119 NERR (1) 117 119 NERR (1) 117		•		S VALUE			NCHAR		54	IA	•
115 NLIST (1) 116 SION (1) 117 SIVE 118 NERR (1) 08 0	115 NLIST (1) 116 SION (1) 117 117 117 117 117 117 117 117 117 1				PS ALIST	(30)		BLIST		98	CLIST	6
118 NERR (1)	118 NERR (1) 08 0 00 LENGTH 4468 294			-	15 NL 15T		-	NOIS		711	SIVE	•
80	08 4468			-	18 NERR	3						
80	4468 4468											
	DAMON LENGTH 4468	ИСТН		0								

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09/09/77 10.58.39
FTN 4.6.420
OPT=0 ROUND=+/ TRACE
                                           SUPROUTINE CKDATA
74/74
SUBROUTINE CKDATA
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```
INTEGER GRM
INTEGER ALIST.BLIST.CLIST
LOGICAL LLISTG (30).LLISTE(30).LG1
COMMON / ARBK/ ARK.
COMMON / ARRK/ ARE
COMMON/BSALK/IBTE.FDE.BTE.GBM
DIMENSION ICHECK (30) + JCHECK (30) + KCHECK (30) DIMENSION IPS (10) + P8 (10)
                                                                                                                                                                                   COMMON /CSTBK/ CCCST(50.10.2)
COMMON /CSTBK/ LO.ITY.0T20.0T
COMMON /OOKK/ 10.ITY.0T20.0T
COMMON /FCON/ HCON
COMMON /FCON/ HCON
COMMON /HCON/ HCON
                                        DIMENSION N9 (4) . PLIST (4)
                                                                                                                                                                       2
                                                                                                                                                                                                                                                                            15
                                                                                                                                                                                                                                                                                                                                                                                    20
```

COMMON KAYBK/ IAXK
COMMON KAYBK/ IAXK
COMMON ALCY AXK, YK, TRY (20), FAC, LS, XCBR, XSTR
COMMON ALCY AXK, YK, TRY (20), FAC, LS, XCBR, XSTR
COMMON ALCY AXK, YK, TRY (20), FAC, LS, XCBR, XSD, XT (10,6),
INS, ZHT (3,4)
COMMON AY RALK / STORE (10,10), STORE 2 (10,10), COVRGD (10,20), IMIX, LR, JJ
COMMON AY RALK / STORE (10,10), STORE 2 (10,10), COVRGD (10,20), IMIX, LR, JJ
COMMON AYRALK / STORE (10,10), STORE 2 (10,10), COVRGD (10,20), IMIX, LR, JJ
COMMON ARLY INSTRY IMAN, NUMS, NOO (10), CSTRT (10,6)
COMMON ARLY RESTAY IMEST, STORE (3,10), NOACFT (50,10)
COMMON ARLY KT, KT, KT, KT, EMPTHKK, IDENT (3), FACTOR
COMMON ARLY KT, KT, KT, EMPTHKK, IDENT (3), FACTOR
COMMON ARLA KT, KT, KT, EMPTHKK, IDENT (3), FACTOR
COMMON ARLA KT, KT, KT, EMPTHKK, IDENT (3), FACTOR
COMMON ARLA KT, KT, KT, EMPTHKK, IDENT (3), FACTOR
COMMON ASAALOS, WOS 52 30

MODE . VALUE . NCHAR . 10 . AL IST

COMMON /SCANZ/ ENTITY(20) NR.
1 (30) -RLIST(30) -CLIST(30) -NLIST
COMMON /SCANZ/ JOL-NP.TRL(10) -TCY(50)
COMMON /SUBK/ SUBD.IUBC.IDRY COMMON /TYP/ NPIGID.NFLEX

35

DATA (JCHECK(1),1=1,30) /20-1,1,-1,2,100-1,3,4,5,20-1,6,50-1,7, СОМ40N /IYPBK/ LMH.LFUNC DATA RLIST /3HRRG.3HRRG.3HFIC.3HFOS/ DATA (ICMECK(I.I=1.30) /1.44-1.2-1.3.24-1.44.-1.5.6.2*-1.7.8. 13-1.43.3-1.10.11-112-1/

07

DATA (KCHECK(!).I=1.30) /1.-1,2.3,20-1,4.-1,5.-1,6.-1,7.8.9,10.
111.-1,12.-1,13.14.15.16.20-1,17.18.19.-1/
DATA (LLISTA(!).I=1,30).(LLISTB(J).J=1,30).(LLISTC(K).K=1,30)

45

FORMAT (2x,2012)
FORMAT (2x,12F6.2)
FORMAT (2x,12F6.2)
FORMAT(/1x,18HFEUUIRED VARIABLES//)
FORMATI(/1x,18HFEUUIRED VARIABLES//)
FORMATI(x,10H THERE ARE,1x,12,1x,19H ERRORS OF OMISSION)
FORMATI(3x,40+,2x,43,13H MUST BE READ) 25000 25000 3500 4500 5500

20

FORMAT(2x.20(2x.12))
IF(1D.EO.1) | PEST=1.1TY
IF(1D.ES.1) | PEST=1.1TY
IF(1D.EST.EO.2) = (IPEST.EO.2)) | NRIGID=0
IF(1DREST.EO.2).A.(IREST.EO.2)) | NRIEX=0
IF((JREST.EO.2).A.(IREST.EO.2), A.(JREST.EO.2)) | IAXK=2

99	If (NF(GLO.**O) LL(STC(3)**T.
3	
99	LLIST((29) = .1.
	LLISTO(27) = 1.
	ID. EQ. 31 GO 1
,	IF(JISKIP.Eq.1) LLISTC(1) *.T.
2	ST9(5)=.T.
	401 IF(ID.NE.1) GO TO 402
	LLISTA(8)=.T.
75	402 IF((ID.EQ.1).4.(IREST.EQ.2)) GO TO 403
	LL[510(4)=.1.
	403 IF ((10, 60, 1), 4, (14xx, 60, 1)) 1115TC(15) = T.
80	IF
	IF ((1D.NE.1) . A. (IREST.NE.3)) LLISTC(16) =. T.
	404 IF ((ID) NE.3). A. () REST. NE.2)) LLISTB(16) = 1.
	IF (NRIGID, EQ. 2) LLISTA (18) = .T.
85	
	LLISTC(191=.T.
	3
	405 If (VLEXTUD) 60 10 406
96	IF (10.NE.)) LL 15TC(23) = T.
	406 LG1=NPIGID.EG.2
	IF (18TE.NE.1) LLIST8(3)=.T.
90	IF (JMAN.NE.1) LLISTC(7)=.T.
	IF (IMAN_E0_2)
	IF ((JPEST.NE.3).A. (18N.NE.2)) LLISTC(13) =.T.
	IF ((JREST.NE.3) . A. (IBN.NE.1))
100	TELLITTE FO. 61 O CIRTE FO. 211 ILISTA (201 - T
:	010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	IF (LLISTA(1)) 60 TO 99
105	90 JINDEX=ICHECK (1)
	-
	101 IF(JTYPE(1,1),EQ,4H) GO TO 190
	106 16 100 100 60 10 100
110	-
	108 IF(ITY.6T.1000000) GO TO 190
	60 TO 100 THE FOLLOWING TO INDOCRATIVE ATOCOMEST MAINTENANCE DEFAULT TO THE

SUBR	SUBROUTINE CKDATA	DATA 74/74 OPT=0 ROUND=0/ TRACE	FTN 4.6+420	11/60/60	10.58.39	
511		NZ=INT (CCCST (N] + 1 + 1) + 1) IF (NZ + EQ + 0) GO TO 190				
	113					
120	114	4 IF (x5TR-55-10000000.) GO TO 190 60 TO 100				
	111					
125	86					
130	118	NJ=0 70 47 1=1.IMIX				
	97	100				
51.1						
3	152					
	127					
140	129					
	190	60 TO 100 0 WRITE(10,2500) ALIST(1)				
	100	N10=N10+1				
145		_				
	199					
150	203	3 IF (Ghw. GT. 100000n) GO TO 290				
	205					
	216	_				
155		IF (N3.FU.A) GO TO 290 GO TO 200				
	715					
160	218					
	230					
165	221					
		N4=INT(CCCST(N3+1+1)++1) IF(N4+E0+0) GO TO 290				
	722					
170	2000					

SUBROUTINE CKDATA	CKDA	74/74 OPT=0 ROUND=+/ TRACE FTN 4.6+420 09/09/77 10.58.39
175	299	NIG=NIQ+1 CONTINUE 1F(LL STC(1)) GO TO 299 GO TO 300 JINDEX=KCHECK(1)
081	301	0
185		N7=N5 IF (N5_G1_N3+1) N7=N5-1 IF (N5_G0_N3+2) G0 TO 334 NA=INT (CGST (N5+1,1)+1)
06	334	14.7-N3+1)=1 1=1 1 TO 390). A. ([REST.NE.3)) WRITE (10.5500)
195	303	IF (N94(2).E0.0).A.(JREST.NE.3)) WRITE(10,5500) CLIST(1),RLIST(2) IF (N94(3).E0.0).A.(JREST.NE.2)) WRITE(10,5500) CLIST(1),RLIST(3) GO TO 300 IF (NRIGID.GI.1000000) NRIGID*1
500	304	IF (1) U+C. 5T-1000000) GO TO 390 GO TO 300 LG1=MLYST.LT.1000000
205	9	NS=1000000
210	311	10 10 3.00 60 TO 3.00 N7=INT(CCCST(5.1.1)1) IF(N7.E0.1) 60 TO 3.90
215	314	IF (N7.EQ.A) GO TO 390 SO TO 300 FF.NZ.EQ.A) GO TO 340 FF.NZ.EQ.A) GO TO 340
220	316	60 TO 300 NY=ENT(CCCST(2-1,1) 1) IF (VX-£4,0) GO TO 300 GO TO 300
\$82	317	IF (LFUNC.6T.1000000) GO TO 390 GO TO 300 GO TO 300 DO 355 HREAL10 HH (HA) = 1.10

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PAGE

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OPT=0 ROUND=*/ TRACE FTN 4.6+420	CONTINUE WPITE(6.6000) NUMS WPITE(6.6000) (NOO(I).I=1.NUMS) 00 SP I=1.NUMS NUMU=NOO(I) 00 SP J=1.NUMS	CONTINUE CONTINUE WPT TE (6.6000) NNAT.NCOM.NSBB.NB	DO 333 I=1,1CCSI7 NOPTS=IVI (CCCST (I+1,+1)+2 CCCST (I+1,2)=FLOAT (NOFS6) ONFSS=NOFSG+NOFS-NOFS-NOFS-NOFS-NOTS-NOTS-NOTS-NOTS-NOTS-NOTS-NOTS-NOT	## CONTINUE FINATE FO.0) GO TO 34 WHITE (5,2000) ((YCBR(I,J),I=1,NNAT),J=1,4) CONTINUE	((ZCBR(I.J),I=1.NCOM),J=1.4) ((ZCBR(I.J),I=1.NCOM),J=1.4) ((XMT(I.J),I=1.NSB8),J=1.4)	(ZMT([1]) + [= 1 + NB)	0×0 0×0 0×0 0×0 0×0 0×0 0×0 0×0 0×0 0×0	CSTRT(I+J)	
14 74/74	CONTITUE WRITE(6.6000) NUMS WRITE(6.6000) (NOO(I).I= DO 52 I=1.NUMS NUMU=VOO(I) DO 52 I=1.NUMS	CONTINUE CONTINUE WRITE(6.6000) NNAT.NCO NOFSGET	DO 33	IF (NNAT.ED.0) (YCCS) IF (NNAT.ED.0) GO TO 34 WRITE(6.2000) (YCBR(I CONTINUE	WITE (6.2000) CONTINUE IF (NSAB.EQ.0) WRITE (6.2000)	CONTINUE WRITE (4.2000) (ZMI(I) WRITE (4.6000) IURC.ID WRITE (6.2000) (TM(I)) WRITE (6.2000) (TM(I))	00 399 1=1,NUMS NUMO=NOO(1) 00 399 K=1,NOMO 01 394 K=1,NOMO 01 10 10 10 10 10 10 10 10 10 10 10 10 1	CSTAT (1.04) = CSTAT(1.4) CONTINUE CSTAT (1.1) = 0. NOO(1) = NUMO+1 CONTINUE	CONTINUE RETURN END
CKDA	670	52 51		333	162	s.		399	004
SUBROUTINE CKDATA	345	350	355	360	365	370	375	340	385

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SYMBOLIC REFERENCE MAP (R=3)

•	212	3	373 292 292 354 356 368	195
PAGE	187 357	385	3*239 171 290 356 373 174 365 374	307
10.58.39	166 DEF 1160	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	233 148 270 349 372 145 362 284 284	265 193 0EF INED 326
11/60/60	58 157 359 194	333	23.7 23.7 1,46 1,46 1,102 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,03	261 171 342 0EF INED
420	142 DEFINED 171 154 356 193	312 329 278 278	2 + 50 2 3 4 2 3 4 1 4 2 3 4 5 3 4 5 3 4 6 3 7 5 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0	227 130 142 275 341 333
FTN 4.6.420	32 242 242 32 118 115 221 32	307 297 297 297 138	2+20 233 233 195 195 309 309 345 373 79 97 97 97 97 97 97 97 97 97	0EFINED 96 123 170 REFS 274 313
	16 11 218 22 22 22	38.6 11.2 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	226 1193 1193 300 172 172 173 174 174 175 175 176 177 177 177 177 177 177 177 177 177	228 26 22 32 32 32 32 32
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NE CKDATA	SN TYPE PEAL PEAL PEAL PEAL INTEGER PEAL INTEGER PEAL PEAL PEAL PEAL PEAL		N E E E E E E E E E	INTEGER INTEGER INTEGER INTEGER INTEGER
SUBROUTINE CKD	t. t t t 50	DLCF DLCF DTCD DT20 EARTHWK ENTITY FACTOR	1 A X K 18 N 18	1110 00 441 00
	VARIABLES 31 ALM 31 ALM 0 ALS 0 AREA 0 AREA 0 AREA 0 AREA 0 AREA 0 CCCS 125 CLIS	* 000050	23 24 44 44 44 44 44 44 44 44 44 44 44 44	2412 620 30 2425 2434

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PAGE	309 31 9	316 123 365	261	359	66 7 1 99 97	35
10.58.39	315 318 318 316 06FINED	75 312 0EF INED 362	253	2•333 332 342 319 262	9438 6 6	206
11/60/60	30.2 34.2 31.6 31.4 DEF INED 32.9	24 24 24 24 359	41 252 0EFINED 289 2•57	226 2•329 328 43 341 0EFINED	100 45 77 161	237 205
0270	303 DEFINED 341 312 314 310 326 327 327 0EFINED	0EFINED 1111 371 266 368 348	DEFINED 251 178 178 70 287 265 56	160 294 294 294 32 32 32 337 205	DEFINED 92 DEFINED 06FINED 69 DEFINED	DEFINED 202 165
FIN 4.6.420	0EFINED 337 320 320 5EFINED 305 325 323 323 323	298 152 152 200 132 132 365	148 136 149 69 94 DEFINED	286 107 206 132 131 177 0EFINED 325 224 202	103 85 146 93 175 175 163	372 260 239 169 283
	304 315 311 313 2*305 301 321 322	195 195 13 135 125 362 293	25 25 25 25 26 25 27	196 20 20 37 37 37	83 85 85 85 85 85 85	238 238 21 21 21 21 21 21 32
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74/74	RE ARRAY		ARRAY	ARRAY ARRAY	В ВРИВ 4 В В В В В В В В В В В В В В В В В В	
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	VARIABLE 2424 2424 2427 2427 2427 2427 2422 2422 2433 2433	2403	2377	26.04 25.35 25.35 25.30 24.30 24.30	2665	27 27 27 27 27 27 27 27 27 27 27 27 27 2

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PAGE	š					236	310					196	354			338							158		157		207	203	222	221	263								372
10.58.39	352				358	DEF INED	745					16	352		383	311					275		155	189	154	181	5.506	187	219	218	190	•		196	2				256 256
11/60/60	180	95	362		353	373	340		356			94	140		379	303			292		273	112	134	188	132	166	187	DEFINED	216	215	182	2	323	195	:				255 255
027.	165	DEFINED	361		DEF INED	239	383	262	DEFINED			83	165	1	378	300	375		290	114	172	172	132	186	129	DEF INED	186	202	213	212	DEF INED		DEFINED	194			285		524 524
FTN 4.6.420	114	99	352	992	358	237	331	DEF INED	326			65	198	•	377	508	346		205	DEF I NED	172	143	127	145	125	183	2*185	100	189	185	268	189	333	193	?	132	125	2	250
	32	36	61	2,5	357	2.	327	293	358	34	35	36	55		348	92	345	3,6	5 7	115	143	101	125	183	122	167	184	189	188	184	192	188	33,	*C	38	25	35	34	252
OPT=0 ROUND=+/ TRACE	REFS	REFS	REFS	REFS	REFS	REFS	DEFINED	REFS	REFS	REFS	REFS	REFS	DEF INED REFS	368	REFS	REFS	344	2000	REFS	REFS	REFS	DEFINED	REFS	181	DEFINED	REFS	REFS	DEFINED	REFS	DEFINED	REFS	DEF INED	REFS	RFFS	DEFINED	REFS	REFS	REFS	REFS DEFINED
0PT=0 ROU	RELOCATION SCAN2 LYTO	TYP	LY10	NBLK	NBLK	NBLK	KI SOK		NBLK	SCAN3	NBLK	TYP	LYTO			RDSTR		NBLK	MANLK																	MIXBLK	SUBK	SCAN3	нВГК
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10.58.39		282 298 370 370 212 356	ä	127
11/60/60	235	281 368 368 368 340	115	120
420	238 DEFINED	280 294 365 336 339	110011	118
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	258 34 34 33 33 239 236 236 19 19	278 288 359 359 253 154	1306	Ξ
OPT=0 ROUND=*/ TRACE	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	277 287 352 352 853 253 115	293 293 131 124 104 135	109
PT=0 ROUN	PELOCATION SCAN3 SCAN2 SCAN2 SCAN2 SCAN2 SCAN2 LCY LCY LYTD LYTD LYTD LYTD LYTD LYTD LYTD	WRITES 286 349 349 373 SEE ABOVE DEF LINE	REFERENCES 237 361 367 299 289 289 289 103 103 106 106 106 106 106	106 273 107 138
74/74	*UNDEF ARRAY ARRAY ARRAY LL ARRAY LL ARRAY	FILE NAMES. S ARGS INTRIN 1 INTRIN 1 INTRIN	DEF LINE 240 343 343 359 351 350 256 256 176 1176 111 111 111 114 1170 1170 1170 1170 117	140
E CKDATA		MODE FMT USED AS TYPE REAL PEAL PEAL		
SUBROUTINE	ES SN 170L 170L 170L 170C 170C 170C 170C 170C 170C 170C 170C	TAPE6 FMT VAPIABLES USED FUNCTIONS TYL AINT REAL FLOAT PEAL INT INTE	STATEMENT LABELS 10727 34 11773 346 1632 51 1366 60 0 57 1366 60 0 64 0 97 0 97 0 97 0 97 0 97 0 97 0 97 0 97	199
	VARIABLES 2417 TOL 2 TRL 2 TRL 2 TRL 2 TRL 2418 XXCH 147 XMT 2414 XXCH 1 YXCH 1 YXCH 1 YXCH 2424 XMT 2445 XMT 2	FILE NAMES TAPEA VARIA INLINE FUNCT FLOAT INT	1727 1727 1773 1677 1865 1365 1365 1365 1365 1375 1375 1375 1375 1375 1375 1375 137	431

12	168		214		52 6 9 8 9 8 9 9 9 9 9 9 9 9 9 9
PAGE	30		272		252
10.58.39	162	91	210		219
71/60/60	159	167	208 241 269		216
50	156	163	201 229 260		24.8
FTN 4.6.420	153	158	199 225 255 259		209 246
	151	155	197 223 257		207
OPT=0 ROUND=*/ TRACE	ERENCES 147	152	265	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11 186 2 2 2 1 186 2 2 4 2 2 2 2 3 3 4 3 3 4 3 3 4 3 4 3 4
PT=0	REFE 149	33333333	2112211		226 226 227 227 230 230 230 242 242 243 330 330 330 330 330 330
74/74	DEF LINE	150 157 157 158 158 158 158	2557 177 272 180	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	230 230 230 230 230 230 330 330 330 330
CKDATA					INACTIVE
SUBROUTINE CKD	STATEMENT LABELS 570 200	205 205 216 217 217 221 221 230 230	300 300	1000 1000 1000 1000 1000 1000 1000 100	3375 3375 3375 3375 3375 3375 3375 3375
	STATEME 570	506 506 515 524 533 533 533 533 533 533	601	753 766 766 766 766 767 767 767 767 767 76	2054 2056 2056 2056 2056 2056 2056 1056 1156 1156 1156 1156 1156 1156 1

13	368	*62		
PAGE	365	062		
10.58.39	3952	288		0720
11/60/60	359	287		~ ~
	34.9	371		
FTN 4.6.420	162	196 283 352 352 NOT INNER	NOT INNER NOT INNER NOT INNER NOT INNER	FDE (1)
	285 373 270	195 282 345 345 EXT REFS NOT INNER	INNER REFS REFS REFS REFS INNER REFS REFS REFS REFS REFS REFS REFS RE	
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74/74	DEF LINE 330 330 343 343 443 484 48		130 133 130 133 130 133 130 133 130 133 130 133 130 133 130 133 130 133 130 130	*EXBERS
SUBROUTINE CKDATA	S III	FMT		LENGTH 2 1 1 1 0 0 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4
SUBROUT	STATEMENT LABELS 0 640 1553 660 1575 670 2061 1000 F 2063 2000 F 2065 7500 F	5500 6000 100 98	999 999 999 999 999 999 999	ALOCKS AMBLK ARBK ARBK BSBLK CSTBK CUSR DOBK
	STATEME 0 1553 1575 2061 2063 2065			COMMON

SUBROUT	SUBROUTINE CKDATA	74/74	0P1=0 R	74/74 OPT=0 ROUND=+/ TRACE	FTN 4	FTN 4.6.420	09/09/77 10.58.39	10.58	39	PAGE	*
COMMON PLOCKS	LENGTH	MEMBERS	- RIAS NA	MEMBERS - BIAS NAME (LENGTH)							
HALK	04		II C	(10)	10 TH	(50)	30	30 AHH	(10)		
KAYBK	-		O IAXK	=======================================							
LCY	92		0 AXK	3	1 YK	3	2	TRY	(50)		
			22 FAC	3	53 62	£	54	24 XCBR	Ê		
			25 XSTR	==							
LYTD	176		O NNAT	=======================================	1 YCBR	(07)	1,	NCOM	(1)		
			42 ZCBR	(60)	102 NSBB	13	103	103 XMT	(09)		
		-	63 NA	3	164 ZMT	(15)					
MANLK	455		O JMAN	3	1 MLYST	13	2	2 NYOO	(50)		
			22 JXX	(400)							
MIXBLK	403		0 STORE1	(100)	100 STORE2	(100)	200	COVRGD	(500)		
•		4	NIMI OO	3	401 LR	:	405	402 33			
MXBLK	~		O IGINT	3	1 ICBR	(1)					
NALK	•		90N 0	CD	HON I	3	2	NPT	6		
			3 NX	(1)	× 4	3		000	3		
			9 NOSG	(1)	7 X Y	3					
PRVNTI	~		0 ISKIP	(1)	1 JISKIP	3					
ROSTR	72		O IMAN	(1)	1 NUMS	6	2	2 NOO	(10)		
			12 CSTRT	(60)							
RESTR	e		O IREST	23	1 JREST	3	~	2 ICOUNT (1)	(1)		
NI	530		O JIYPE	(30)	30 NOACFT	(200)					
RL1	1		0 K7	(1)	1 K4	3	2	2 EARTHWK(1)	(1)		
			3 IDENT	(3)	6 FACTOR	13					
BODLOD	c		0 IDP	(1)	1 12	(1)	2	2 10F	6		
SA	~		O ALOS	(2)	1 W0S	5					
SCANZ	116		O ENTITY	(50)	20 NR	3	21	MODE	3		
			SS VALUE	(1)	23 NCHAR	5	*2	01	ê		
			25 ALIST	(30)	55 BLIST	(30)	88	85 CL1ST	(30)		
		-	IS NLIST								
SCANS	29		0 JOL (1)	(1)	d N	E	~	2 TRL	(10)		
SLIBK	,		1010	(106)			•	-			
2005	· ·		0 5080		1 1080	2	2	IDRY	ĉ		
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STATISTICS											
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CM LABELED CO	MMON LENGTH										

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FTN 4.6.420

OPT=0 ROUND=+/ TRACE

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OPT=0 ROUND=+/ TRACE			NCES 39	RELOCATION SCAN2 F.P.	SCAN2 SCAN2 SCAN2		SCANZ	SCANZ	SCANZ	F.P. F.P. SCANZ	AL SCANZ AL SCANZ AL SCANZ ED AS FILE NAMES, SEE ABOVE	REFERENCES 6 14	E REFERENCES 25 7 7 7 15 8 8 21 21 21
74/74	60 TO 12	MAP (R=3)	REFERENCES 13	ARRAY ARRAY	ARRAY ARRAY ARRAY						ILE NAMES.	ARGS 4 0	DEF LINE 20 17 16 16 16 14 23 23
E PLABAY	ENO ENO	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	TYPE REAL REAL	PEAL PEAL PEAL	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER INTEGER INTEGER INTEGER	REAL REAL REAL USED AS F	TYPE	INACTIVE INACTIVE
SUBROUTINE PLABAY		SYMBOLIC	ENTRY POINTS	LES SN ALIST B	BLIST CLIST ENTITY	-2 :	IVALUE	NCHAR	NERR		SIVE REI VALUE REI VARIABLES US	PARSE PARSE ROLINE	STATEMENT LABELS 54 1 43 2 37 3 0 4 1 5 34 6 0 7 64 8 75 9
			ENTRY	VARIABLES 31 AL 0 B	125	313	311	3 3	166	163	165 165 26	EXTERNALS PAF ROL	STATE 54 43 37 0 0 14 64 64

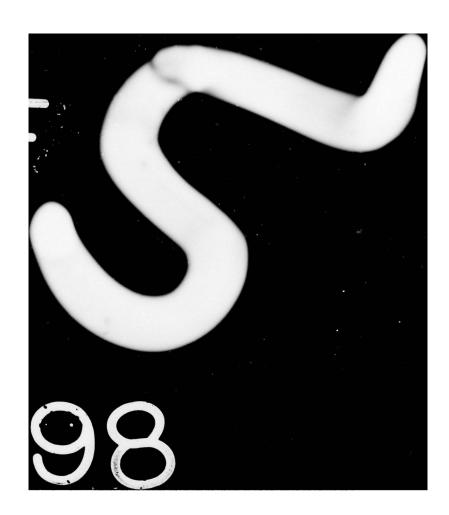
DEF LINE R 35 40 52 40 52 44 39 48 11 11 32 48 11 32 48 11 11 11 11 11 11 11 11 11 11 11 11 11	SUBROUTINE PLABAY	74/74 OPT=0 ROUND=#/ TRACE	FTN 4.6-420	09/02/77 13.54.00	PAGE
LENGTH MEMBERS - BIAS NAME(LENGTH) 1 NALUE (1)	555 3	DEF LINE REFERENCES 29 20 35 40 40 43 52 41 37 39 48 31 31 32 31 54 MEMBERS - BIAS NAME (LENGTH) 22 VALUE (1) 25 ALIST (30)		21 S 6 10 2 10 2 10 2 10 2 10 2 10 2 10 2 10	
		115 NLIST (1) 118 NERR (1) MEMBERS - BIAS NAME(LENGTH) 0 IVALUE (1)			

5 COMMON / RL2/ NAME (5) - LOCATION 10 COMMON / RL2/ NAME (5) - LOCATION 10 COMMON / RCAN2/ ENTITY(20) 10 (30) - ALIST(30) - CLIST(30) - CCCST(10) - CCCCST(10) - CCCST(10) - CCCCST(10) - CCCST(10) - CCCCST(10) - CCCCST(10) - CCCST(10) - CCCST(10)	LOCATE (8), IDSCRPT ((30), NL IST, SION, SI ALUE) MAY NOT BE REDEF I 390 .NE. 48) GO TO 386 E.VALUE, NCHAR) 388 (11), 11=1,NW) ING NAME IS NOT IN IX, 2044, /)	MODE.VALUE.NCHAR.IO.ALIST VE.NERR NED IN THIS SUBROUTINE	(3.50), CHAR () HAR, IO, ALIST UBROUTINE	
388 388 388 388 398 398 393	M. CLIST(30).NR. ALUE.IVALUE) I AND L MAY NOT BE REDEFIN I AND L NE. 48) GO TO 386 AND. L .NE. 48) GO TO 386 (4 (ENITY(1)) ITY.HODE.VALUE.NCHAR) 189.390.388 (4 (ENITY(11).11=1.NW) 180.00110 NAME IS NOT IN 180.00110 NAME IS NOT IN 180.00110 NAME IS NOT IN 180.00110 NAME IS NOT IN	ENERR ED IN THIS SI	HAR. IO. AL IST	
387 386 386 901 389 390	I AND L MAY NOT BE REDEFIN 3) GO TO 390 AND. L .NE. 48) GO TO 386 41 ITY.MODE.VALUE.NCHAR) 89.390.388 44 ENTITY(II).II=1.NW) FOLLOWING NAME IS NOT IN EFOLLOWING NAME IS NOT IN EFOLLOWING NAME IS NOT IN	ED IN THIS SI	UBROUTINE	
387 386 386 901 389 390 390	3) GO TO 390 AND. L.NE. 48) GO TO 386 44 IIIY,MODE,VALUE,NCHAR) 89,390,388 44 EENTIY(II),II=1,NW) FOLCOMING NAME IS NOT IN EFOLCOMING NAME IS NOT IN			
386 386 388 901 1 1 390 392	'4' 'IITY(J) 'IITY,HODE,VALUE,NCHAR) '189,390,388 '(ENTITY(II),11=1,NW) '(ENTITY(II),NI=1,NW) '(ENTITY(II),NI=1,NW) '(ENTITY(II),NI=1,NW) '(ENTITY(II),NI=1,NW)			
386 386 398 390 390 390	(IIIY,MODE,VALUE,NCHAR) 11IY,MODE,VALUE,NCHAR) 189,390,388 4 4 4 6ENIIY(II),II=1,NW) FOLCOMING NAME IS NOT IN ECO. ***1X*20A4**/)			
386 389 389 390 392	11TY,MODE,VALUE,NCHAR) 89,390,388 4 (ENTITY(II),II=1,NW) FOLLOWING NAME IS NOT IN EEDIX-2044./)	200		
388 901 1 389 390 392	4 (4 (ENTITY(II),II=1,NW) FOLLOWING NAME IS NOT IN SED +**1X*2044*/)			
901 389 390 391 392	/4 (ENTITY(II),II=1,NW) F FOLLOWING NAME IS NOT IN SEO -/*IX*2044,/)	200 1000		
901 389 390 391 392	FOLLOWING NAME IS NOT IN	010 11000 014		
380 390 391 392	SEU ./ . IX . COA 4 . /)	INE SCAN DIC	TIONARY OR W	AS
389 390 392				
391 392 392				
391				
391	- VALUE			
391	CALL PAMSE(ENTITY.MODE.VALUE.NCHAR) IF(MODE - 2) 391.392.394			
35 913 FORMAT (*0ERROR.	A MORE THAN B SEGMENTS MAVE BEEN SPECIFIED.	VE BEEN SPEC	IFIED.*)	
394	_			
END				

SYMBOLIC REFERENCE MAP (R=3) ENTRY POINTS DEF LINE REFERENCES 4 CIABLE 1 23 37 VARIABLES SN TYPE RELOCATION REFS 5 67 RLIST REAL ARRAY SCAN2 REFS 5 67 RLIST REAL ARRAY G.TBK REFS 5 67 RLIST REAL ARRAY RL2 REFS 5 67 RLIST REAL ARRAY RL2 REFS 5 67 RLIST REAL ARRAY RL2 REFS 5 67 REAL ARRAY RL2 REFS 5 67 REAL ARRAY RL2 REFS 5 68 RFS 5 69 RFINED 15 60 RMITY REAL ARRAY RL2 REFS 5 60 RMITY REAL ARRAY RL3 REFS 5 60 RMITY REAL ARRAY RMITY REAL REFS 5 60 RMITY RMITY RMITY RMITY RMITY RMITY RMITY RM											
C REFERENCE MAD (R=3) DEF LINE REFERENCES SN TYPE RELOCATION REFS PEAL ARRAY SCAN2 REFS PEAL ARRAY GIBK REFS PEAL ARRAY CAN2 REFS PEAL ARRAY CAN2 REFS PEAL ARRAY SCAN2 REFS PEAL ARRAY SCAN2 REFS PEAL ARRAY SCAN2 REFS PEAL ARRAY FL2 REFS PEAR ARRAY FL						27	15			16	DEFINED
C REFERENCE MAP (R=3) DEF LINE REFERENCES 1 2.3 37 SN TYPE ARHAY SCANZ REAL ARHAY SCANZ REAL ARHAY RLZ REAL ARHAY RLZ REAL ARHAY SCANZ						DEFINED	DEF INED			15	36
C REFERENCE MAP (R=3) DEF LINE REFERENCES 1 2.3 37 SN TYPE ARHAY SCANZ REAL ARHAY SCANZ REAL ARHAY RLZ REAL ARHAY RLZ REAL ARHAY SCANZ				S	S	2	c	S	٣	S	27
C REFERENCE MAP (RE PER LINE REF PER LINE REAL ARMAY PEAL ARMAY PEAR ARMAY PEAL ARMAY PE				REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS
C REFERENCE DEF LINE DEF LINE PEAL PEAL PEAL PEAL PEAL PEAL PEAL PEA	AP (R=3)	REFERENCES 23 37	RELOCATION	ARHAY SCANZ	ARHAY SCANZ	ARRAY CSTBK	ARHAY RL?	ARHAY SCANZ	ARRAY RL2	ARHAY SCANZ	F.P.
ENTRY POINTS 4 CTABLE VARIABLES 5 HLIST 67 HLIST 67 CCCST 717 CHAR 125 CLIST 671 OSCRPT 6 ENTITY	REFERENCE M	DEF LINE	N TYPE	PEAL	PEAL	REAL	PEAL	PEAL	REAL	PEAL	INTEGER
ENTRY VARIAB 31 67 717 717 717 717	SYMBOLIC	POINTS	LES S	ALIST	ALIST	CCCST	CHAR	CLIST	OSCRPT	ENTITY	-
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şns	SUBROUTINE	CTAHLE	74/74	0PT=0 ROUI	OPT=0 ROUND=+/ TRACE		FTN 4.6.420	024-0	11/20/60		13.54.00	PAGE	2
8	ES SN 105CRPT 10 IVALUE	TYPE INTEGER INTEGER INTEGER INTEGER INTEGER	ARHAY	RELOCATION RL2 SCAN2 SCAN2 F.P.	X X X X X X X X X X X X X X X X X X X	3 5 2 6 2 6 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	170 REFS 24 DEFINED 27 DEFINED 15	20 30 20 20 36 26 26	0EF1	34 1	3	52	S
2 LOCA 25 MODE 0 MODE 27 MODE 166 NERR 163 NLIS 164 SIVE 26 SIVE 26 VALUI	LOCATE INTECNODE INTECNO	(1) (2) (3) (3) (3) (3) (3)	ARRAY ARRAY FILE NAMES	ER ARRAY RL? ER ARRAY SCAN2 ER SCAN2 ER SCAN2 ER SCAN2 ER SCAN2 ER SCAN2 ER SCAN2 AS FILE NAMES, SEE ABOVE	8	๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	11 13 18 30 30	16 16 DEFINED DEFINED		117 119 119 113	28 19 28	62	
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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 13/2 AD-A064 698 SYSTEMS APPROACH TO LIFE-CYCLE DESIGN OF PAVEMENTS. VOLUME III .-- ETC(U) JAN 79 E S LINDOW CERL-TR-M-253-VOL-3 NL UNCLASSIFIED 20FS A084698



PAGE 09/02/77 13.54.00 FTN 4.6+420 74/74 OPT=0 ROUND=#/ TRACE 1932 1738 36148 STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH SUBROUTINE CTABLE

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SUBROUTINE PARSE	NE PARS	ISE 74/74 OPT=0 ROUND=0/ TRACE	FTN 4.6.420	11/20/60	13.54.00	PAGE
9	υυ	D - E A " B S DATA ISTATE / 18.17.16.26.26.30.32.29. 6. 7. 1 GET 18.17.16.26.26.13.32.29. 6. 7.	nr	00068000		
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08	υ	35STE /6HTL ,6HTDR ,6HTD),6HTMP ,6HELIM ,6HCOST ,6H =0 =0	.6HPGLEND.6HAPRUN .6HPGLBRK.6 RUN .6HRC .6HCD /	000110900		
s 6	000	STATE = PSTATE GO TO ACTION 1 FLLIMIT.EQ.3) WRITE(6.2) JUMP.MODE.CLASS.STATE.L	STATE.L	00011200 00011300 00011400 00011500		
s &	000	GG TO (10.20.301.40.50.607.70.80.90.100.110.120.130.140.150.160. 1	120,130,140,1 50,160, 3,260,270,280,	00011900 00011900 00012000 00012100		
100	, e =			00012200		
105	66	0077460				
0	6 00	00 400 IX=1.13 IF(4∪FR(1).NE.8STE(IX)) GO TO 400 WHTE(2.11) (8∪FR(I).1≈1.14) GO TO 10				

SUBROUTINE PARSE	PARS	74/74 OPT=0 ROUND=*/ TRACE	FTN 4.6+420	11120160	13.54.00	PAGE
1115	12	<pre>IF(.NOT.IPRINT) GO TO 15 IF(ILABEL.EG.0) GO TO 13 WRITE(!OUT.12) !LABEL. (BUFR!!). I=1, MARKW) FORMAT(!X.IS.!X.!3AG.AZ)</pre>		00012700		
120	15 13	00 15 WRITE(10UT.14) (BUFR(I),I=1,MARKW) RX-BLANK CALL CONCAT(BUFR(I),0,8X.0,12)		0001300		
5 2		IF(Ax,EQ,TESTC) GO TO 10 BUFR(13)=DOL GO TO 20 END OF FILE		00013500		
130		IF(FILPT.LE.NFIL) GO TO 18 WRITE(IOUT.17) FORWAT(20H ALL DATA PROCESSED) STOP 1061		00014000 00014100 00014100		
261	e	INDVIT = LIST(FILPT) FILPT = FILPT + 1 GO TO 10 NEXT CHARACTER		00014400		
•		כסר=כטר		00015100 00015100 00015200		
145	8	L=0 LL= (COL+5)/A CALL CONCAT(8UFR(LL).6*MOD(COL-1.6).L.54.6) CLASS = ICLASS(L-1) JUMP = ISTATE(10*STATE + CLASS) 60 TO		00015400		
150	6	SET JUMP TO NEXT CHARACTER		00015900 00015100 00015100		
25 551	20	PACK CMARACTER NCHAR = NCHAR + 1 L1=(NCHAR-3)/4 L2=(COL+3)/4 (COL+3),6************************************	0.000 CHAR-1-4-6-	00016300		
000	9	GO TO 1 COUNT BLANKS NRIANK = NRIANK + 1		C0017000 C0017100 00017200		
2000		IF(NBLANK.LE.LIMIT) GO TO 20 CHECK IF END OF STRING IF(PSTATE.E0.1) GO TO 130		00017500		
170		END LINE		000181000		

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SYMBOLIC REFERENCE MAP (R=3)

1		1	159	135	120 107		328
PAGE		107	333	192 262 53 53	203	162	323
13.54.00		159	144 146 328	23 197 DEFINED	112 100	170 REFS 131 202	317 148 236 184
11/20/60		52 80 102 146	06F1NED 145 323	DEFINED 53 135 237	107 97 56 0EFINED	134 120 53 59	310 DEFINED 186 144
450		DEFINED 100 123 DEFINED	148 140 317 52	186 281 0EFINED 134 54 201 261	102 DEFINED 182 DEFINED 117 256	DEFINED 117 115 DEFINED 306	245 245 309 147 533
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	ENTRY P	VARIABL 10 632 16 763 0 756 21 20			1000	637 1100 14 15 15	

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PAGE	544	222 323 215	301	
13.54.00	185	164 185 295 24 317 272 06F INED	293	
11/20/60	157	92 182 221 221 221 310 310 193 169 0	06F INED 287 307	95
450		0 0	148 282 52 52 237	1124
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	VARIABLES 235 LI 235 LI 757 LI 761 L2 761 L2 251 MAI	25.7 25.7 25.7 25.7 25.7 25.7 25.7 25.7	752 13 634 634 7 11E N	STATEMENT POPULAR POPU

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PAGE	356			
13.54.00	283			11 PRINT (1) JUMP (1) JUMP (1) MAHK (1) ON (1) THE IL (1) ON (1) ON (1) ON (1) ON (1)
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PSTATE (1)

5	SUBROUTINE BACKUP	BACKUP	74/74	OPT=0 ROUND=+/ TRACE)=+/ TRACE		FTN 4.6.420	•450	11/20/60	09/02/17 13.54.00	PAGE	
- v		SUBRA C COMM	SUBROUTINE BACKUP(I) BACKSPACE COMMON/PARS/BUFR(15) ITAB(64) MARK.MAR	CKUP(I) ACE UFR(15) + COL+ TAB(64) + JSTA ARK+MARKW+NE	SUBROUTINE BACKUP(I) BACKSPACE COMMON/PARS/BUFR(15) COL. LABEL, INUNIT, IOUT, IPRINT, ITAB(64) JSTART(72) JUMP, LIMIT, LIST(10), MARK, MARKW.NENT, ON, PSTATE, SKIP	. IOUT. IF	PRINT.		00036700 00036900 00036900 00037050 00037051			
91		INTEGEN IF (NENT = COL =	INTEGER COL. IF (NEWT.LT.I) GO TO 40 NENI = NENI -I COL = JSTART(NENT + 1) RETURN COL = 0	INTEGER COL IF (NEWT.LT.1) 60 TO 400 NENT = NENT .1 COL = JSTART(NENT + 1) RETURN COL = 0					00037100 00037200 00037300 00037400			
21		END	ı z						00037430			
S	YMBOLIC F	SYMBOLIC REFERENCE MAP (R=3)	(R=3)									
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	NENT	INTEGER		PARS	REFS	w w	0	10	=	DEF INED	10	
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	SUBROUTINE CONCAT(IFROM.LBIT.JTO.MBIT.NBITS) COMMON.JP/JP(60) DIMENSION JI(60).JO(60) DATA ICK/I/ IFRAIFROM IF (ICK.EQ.0) GO TO 1 ICK.EQ.0 OO Z 1=2.60 OO Z 1=2.60 OO Z 1=2.60 OO Z 1=2.60 CONTINUE CALL BBRK (FR.JI) CALL BRK (JTO.JO)	1F (NBITS,EU.0) GO TO 10 00 3 1=1.NBITS 00 3 1=1.NBITS 10061-MBIT-1)=J(61-LBIT-1) JT0=0 00 4 1=1.60 JT0=JT0-JP(1).E0.0) GO TO 4 JT0=JT0-JP(1).E0.0) CONTINUE RETURN END	SYMBOLIC REFERENCE MAP (R=3) OINTS DEF LINE REFER CONCAT 1 22			ARGS 2 0
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	PROGRAM LSSP	74/74 OPT=0 R	OPT=0 ROUND=+/ TRACE	FTN 4.6-420	11/20/60	13.54.00
•	Ů.	OVERLAY(LIFE.2.0) PROGRAM LSSP H51 - MA	2.0) H51 - MAIN PROGRAM		H51A002	
v		HS1 COMPUTES BENDING STRESS IN CONCRETE	STRESS IN CONCRETE		HS14004 HS14004 HS14005	
01	υυ	COMMON /ARLK/ A.AP(10),AH(1) COMMON /HRLK/ BIGX,BIGY,B COMMON /ARLK/ DPR,DELTA(10) COMMON /ERLK/ E,ERX(50),ERY COMMON /GRLK/ G,GAMMA(10),G	COMMON /ARLK/ A.AP(10),AH(10),AK(10),ASIG(10),AG(10) COMMON /HRLK/ BIGX.BIGY.B COMMON /DALK/ DPR.DELTA(10) COMMON /ERLK/ E.ERX(50),ERY(50) COMMON /GRLK/ G.GAMMA(10),GPRINT(100,10)	,AG(10)	H514007 H514007 H514009 H514010	
15	,	NALK/ NALK/ NALK/ NALK/ NALK/	ICM(10) - ILM-ILO - ISG - INOG NOG - NOM - NPT - NX - NY - NOD - NOSG P - PI - PVMTST (10) - PHIE RPD - AFERO		HS1A014 HS1A015 HS1A017	
50		-	COMMON /XRLK/ SIGNATIO) COMMON /XRLK/ XX.XI.BXLC.XLD.XMU.XNA.XNB.XNC.XND.XNT.XOP3.XOP6H31A100 COMMON /XRLK/ YMN(10).WP(100.10) ,YPZ(4097) COMMON/SIGNA/ YMN(10).WP(100.10) ,YPZ(4097) HS1A025 COMMON/SIGNA/ YMN(10).WA.VMA.CV(1764)	XNC.XND.XNT.XOP3.XOP	6H51A021 H51A022 H51A025	
ĸ	150	XMU = 0.15 XMU = 0.15 CALL PROBRO NPZ=NPT START HE	START HEIGHT LOOP		HS1A038 HS1A039 HS1A040	
90	4	D0 100 ILH=1,NOH F7ERO 598T1 (E+H IF(NPZ -LE, 0) G0 T0 75 D0 40 I=1,NPZ NPZ(1) = ERX(I)/RZERO	DO 100 ILH=1.NOH RRERO =SORT(SORT(E+H(ILH)++3) / (12.+(1xMU++2)+xK))) RRERO =SORT(SORT(E+H(ILH)++3) / (12.+(1xMU++2)+xK))) RRERO =SORT(SORT(E+H(ILH)++3) / (12.+(1xMU++2)+xK))) RRERO =SORT(SORT(E+H(ILH)++3) / (12.+(1xMU++2)+xK))) RRERO =SORT(SORT(E+H(ILH)++3) / (12.+(1xMU++2)+xK)))	XMU**21*XK))	H514041 H5160271	
35	75 85 100	FORTY SERVICES OF TO BE SERVICED OF TO BE SERVICED OF TO BE SERVICED OF THE SE			HS1A045 HS1A046 HS1A047	

CARD MR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

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CONTROL VARIABLE IN COMMON OR EQUIVALENCED. OPTIMIZATION MAY BE INHIBITED.

REFERENCES SYMBOLIC REFERENCE MAP (R=3)

DEF LINE ENTRY POINTS

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STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH

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74/74 OPT=0 ROUND=*/ TRACE BLOCK DATA ADATA	COMMON /DGLK/ DPR.DELTA(10) COMMON /BLK1/ NZ.NW.VMA.CV(1764) DATA NZ.NW. VMA / 42, 42, 3.95 / DATA DELTA / 1000.0 /	.1829167.12125940165.589760339129.1958 164388.74808 179955.25455 679931.34262	DATA (22*0.0/) DATA (CV.U),J=85,169) / -76,6783, 3059.605.96.436.121.66.139.424.151.807.160.094.165.167.167.67, 4 168.098.166.846.124.23568.160.532.155.9582.150.7026.144.92514, 5 138.76222.132.3302144.125.7283426.119.04.1056.112.339935, 6 105.885343.99.12778, 92.70913, 86.463666, 80.418988.74.5968 7 69.01378.63.681943.58.6094925.53.8012.449.2589334, 844.981997.40.96759.31.21109.33.706383.30.44609.27.421875.	924,624596,22.04452,19,6714975, -124,5085, 40,-104,5678,175,971,226,3343,262,287,287,656,304,91,315,763, 8321,4795,323,040,4321,2292,316,68325,309,93196,301,41913, 6291,51999,280,55165,268,79237,256,468563,243,78064, 0230,89763,217,96295,205,0977,192,40338,179,9643,167,84965,	E F113.718237.104.3615249.44.8054.133.95392.123.58582. F113.718237.104.36152.95.52015.87.193887.79.376966. G72.06184.452.2047.554.887572.52.9984686.47.551808. H42.52881.37.90981161.0632/ DATA(CV(J).J=170.253) /0140.041.241.7578.315.905.369.836.	1408.4535.435.1356.452.324.461.860.465.1824.463.4447. 2457.5923.448.411361.4436.5624.422.660384.407.015627. 3990.20091.372.50646.354.3589.335.636035.316.924345. 4298.2828.779.664.23.261.79576.244.181955.227.107534. 5210.63975.194.830534.179.7184.165.3302,151.682565.	0130.7733921.67.63280.113.672496.104.3461044;44.386027.635.31890. 70.4.723921.68.775566.61.44671033.54.7088190.5815. 70.4.169.0077.296.7693.392.5745.463.6425.515.336.551.629847. 9575.52884.5894.3607.594.9751.593.87034.587.2826.576.24395. 456.65741.874.16316.6524.4941.503.44462.4861.5879.2	C315-51708-523-4455-772-14369-251-68218-232-113645- D213-47524-195-790561-179-07159-163-320123-148-529438- E134-68552-121-76827-109-75255-98-609121-88-30556-	7417(17) 1-5-5-4-3377	6179.326644.162.507347.146.813759.133.216142.118.679629. 7106.165247.94.630848.84.031948235.7483. 0 8213.6297.382.9529.515.1652.616.5969.692.5978.747.59323.
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9785.21641.808.45579.819.785125.821.268818.814.643585.

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9901.55219.552.18965.346.97553.1002.7382.1007.931844.
41002-656449.988.729013.947.71945.940.99651.909.70544.
81002-656449.988.729013.947.71945.940.99651.909.70544.
81002-656449.988.729013.947.71945.940.9416.24150.644.3264.
6533.5320.6592.8279.552.9540.514.14258.476.58145.440.4189.
0405.7485.372.7140.341.31185.311.5760.283.58035.257.24191.
E732-72317.909.833.488.25462.1684.3680.150.12545.133.240318.
DATA (CV(J).J=422.505) /0..259.10933.471.91444.643.95472.

1780.4409.4846.15554.965.40641.1062.01337.1059.34698.
21080.35144.1087.59731.1083.32471.1069.46486.1047.77700.
31019.68015.7946.44629.494.93029.9063.11139.4866.74886.822-4062.
4778.30878.786.426.44.406.3401.104.39.558.8049.
5517.8980.478.49169.440.71544.404.6649.370.40622.337.97971.
6307.40355.279.6771.251.7876.226.68989.203.35612.181.729737.
7161.7514.38.143.355949.126.478.863.86770.1159.69940.
91021.75418.1063.90490.1125.55032.1149.70770.1159.04226.
41155.9013.20.1142.337791170.19147.1091.01745.1056.21306.
B1016.90886.7974.39640.9229.35813.8782.6600.834.9859.786.9202.
C738.96651.433.7071.396.80462.361.8679.228.91956.297.96139.268.9770.
E241.9350.216.79096.193.49041.171.977021.152.160623.
DATA (CVU), J=506.589).70.289.13946.533.3055.704.43102.

6383.37611.348.23602.315.21562.284.29976.255.45677.228.64098. 1858-24935,979,20804,1071,42632,1138,67020,1184,348348, 21211,52229,1222,92593,1220,98995,1207,86804,1185,46322, 31155,45266,1119,31092,1078,33085,1033,64277,986,23140, 4936,95121,886,54014,835,63177,784,7668,734,40275,684,9228, 5636.64429.589.8258.544.67411.501.35003.459.9741.420.6313.

C879.77516.826.2785.773.2505.721.1054.670.1871.620.7765. 0573.0991.527.33105.483.60519.442.01621.402.6258.365.46595. E330.54505.297.84931.267.34711.238.99184.212.72416.188.47482. &1279.848751.1279.18335.1266.59284.1244.09568.1213.44743. 81176.1992.1133.71693.1087.19933.1037.6943.986.1137.933.2474. 7203.79524.180.85311.159.74082.140.378931. -311.2601. 80..288.64551.530.08143.729.02524.890.02600.1017.395022. 91115.161991.1187.0484830.1236.4575945.1266.4762996.

F166.166317,145.715062. -318.6990/ DATA (CV(J),19590.673] / 0..286.053463,544.704531.750.49667. 1977.82627.1050.888587.1153.62289.1229.711966.12A2.541946. 21315.210847.1330.534577.1331.055197.1319.05743,1296.58554.

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BLOCK DATA ADATA	TA ADATA 74/74 OPT=0 ROUND=*/ TRACE FTN 4.6-420	11/20/60	13.54.00
su	31265.46131.1227.30202.1183.53786.1135.42858.1084.07909. 41030.45389.975.3905.919.6116.863.73695.808.2935.753.7248. 5700.39987.648.6214.598.63298.550.6257.504.74434.461.09327. 6419.74114.380.75277.344.05793.03.777.705561		
120	80302.504547.557.451123.764209.117.53086.7942.0326241. 90302.504547.557.451123.7642.37668.942.133649.1080.229593. 91187.39857.1267.26935.1373.21045.1358.32375.1375.445646. A1377.1540133.1365.779198.1343.41748.1311.94621.1273.03931.		
521	C955.4056.897.3817.839		
130	1963.36834.41105.90906.1217.01447.1300.26990.1399.02165. 21396.36846.1415.15974.1417.499287.1407.252930.1385.05912. 31353.34147.1313.82212.1268.03579.1217.34369.1162.9473. 41105.9014.1047.1269.987.4224.927.4761.867.875809.1185. 5751.6201.9595.723.641.7056.589.78665.5401.3407.492.87104.		
135	94451.9394.4232.612.5204.52768.136.105.0145.2503.156.06593335.7206. 806.313.010113.578.228748.799.833419.981.89774.1128.34969. 91242.93824.1329.20822.1390.48301.1429.85446.1450.17904. A1454.0790.1443.947676.1421.995740.1390.0014.1350.04877.		
140	C1015-4251-954-2475-892-8710-832-3167-773-0215-715-3467- C1015-4251-954-2475-892-8710-832-3167-773-0215-715-3467- 0659-5853-605-9701-554-6602-505-84703-459-5606-415-8744- E374-8105-336-354-3300-50501-267-18725-236-34590-207-90335- F181-77143-157-853391		
541	1998.04255.1147.92712.1265.58654.1354.52901.1418.05549. 21459-24874.1480.96810.1485.84869.1476.30484.1454.536135. 31422-53609.1382.10193.1334.84580.1282.20626.1255.4602. 41165.7347.1104.919.1044.1755.977.9430.914.9695.852.7955.		
150	9791-0177-424-444-382-16912-342-58889-305-67655-271-39467- 7239-64812-210-38803-183-514219-158-927574343-6860- 80-320-9486'-593-94-459-823-01296-1012-08529-1164-97358- 91285-33063756-176-14-62-515664-1844-97790-1507-954-5-		
55	8136.46974 309.08187 1251.3796.1190.535.1127.5854.1063.4170. 8136.46974 309.08187 1251.3796.1190.535.1127.5854.1063.4170. C998.79973.90.4.3913.870.7662.808.3796.747.6437.688.8744.632.3288. D578.2060.526.6543.477.7768.431.63698.388.26407.347.6576. E309.7917.774.6120.242.07464.212.07805.184.537506.		
990	11024.27466.1179.78331.700.324.145616.600.27721.832.35996, 11024.27466.1179.78341.1302.50152.1395.87508.1463.16399. 21507.43037.1531.5315.1538.11680.1529.62871.1508.30582. 31476.18873.1435.12756.1386.73072.1332.66589.1274.138.		
165	5622-7138-760-6655-700-6121-642-8096-587-4707-554-7511-484-7601- 6437-5659-393-2013-351-66824-312-9422-276-97643-243-70523- 7213-04774-184-91046-159-1900297349-6667- 80326-91042-605-75524-840-6450131-1034-83026-1192-61770- 9137-3046-14-12-5807-1481-4-1878-1554-647013-1636-1192-61770-		
170	A1559.3654.1551.33495.1530.21835.1498.07350.1456.77055, B1407.99987.1353.28077.1293.97116.1231.2773.1166.2647.		

74/74 OPT=0 ROUND=*/ TRACE FTN 4.6-420 09/02/77 13.54.00 C1099.8663.1032.8953.966.0533.899.9396.835.0610.771.8400. C1099.8663.1032.8953.966.0533.899.9396.835.0610.771.8400. C1099.8663.1032.8953.965.0535.541.4811.490.4862.442.3411. E397.0839.354.7168.315.21735.278.53946.244.61724.213.36903. F184.700029.158.505076352.0591/ DATA (CV(J).J=926.1009)/ 0329.29556.610.48211.847.43352.
2134,198444,1297435,437415/14805315/101815/11820248 31517.09093.1475.57973,1426.42983.1371.18819*1311.20888* 41247.7444.1181.8657.1114.5399.1046.5691.978.6983.911.5334* 5845.5949.781.3177.719.0592.659.1070.601.6864.546.9672* 6495.0698.446.0713.400.0110.355.8956.316.70315.279.38832* 7244.88599.213.11115.8183.97058.157.355595*
91441.3716.1499.5031.15116.8670.1558.4955.2533.1559.7412. 41586.4763.1565.7123.1533.5328.1491.8386.1442.35429.1346.635534. 81326.07781.1261.9252.1195.2796.1127.1106.1058.2645.989.4746. 6921.3593.844.6417.749.2560.726.0565.655.2006.606.896.960.
E279.59964.244.58002.212.340.40.182.78371.155.801742355.8813/ DATA (CV(J).J=1010.1093)/ 0333.10641.618.03628.958.5983. 11058.5284.1221.4601.1350.9006.1450.2102.152.5869.1571.0547. 21594.4552.1660.4448.1600.887.1579.4855.1547.6688.1571.0547.
41668.1722.998.5614.929.6158.861.8796.795.8091.771.7868. 5470.0989.411.0029.554.6743.501.2436.450.7956.403.3756. 6358.9943.317.6326.279.2454.243.76985.211.11961.181.19775. 7153.894786 357.3883.
91359.0471.1459.3659.1532.6107.1581.7978.1609.7651.1619.1670. A1612.4725.1591.9654.1559.7463.1517.7374.1467.6674.1411.1785. B1349.63403.1284.32649.1216.3863.1146.8102.1076.4715. C1006.1282.935.4323.4867.9781.801.1112.736.3352.673.9244. O614.1216.557.1147.503.0383.451.9807.403.9900.359.0788.
F131.68703358.6699/ DATA (CV(J), J=1094.1177) / 0335.88671.623.5487.866.7479. 11069.1165.1234.4289.1365.9778.1467.1558.1541.1392.1590.9376. 21619.3848.1629.1345.1622.6774.1602.2413.1569.934.1527.6.37. 31477.5567.1420.7057.1358.7444.1592.95020.01224.46514. 41154.2972.1083.3306.1012.3338.941.9685.872.7982.805.2965. 5779.8554.676.7930.616.3604.558.7494.504.0986.422.4966.
80.135.96792.625.6924.869.9174.1073.3180.1239.4730. 91371.8419.1473.7457.1548.9174.1073.3180.1239.4730. 91371.8419.1473.7457.1548.1578.6178.1538.3340.1485.8171.1428.6687. 81631.2516.1610.9026.1578.6178.1536.3340.1485.8171.1428.6687. 81366.3324.1300.1021.1231.12962.1160.43321.1088.9063. C1017.3267.946.325.8045.8248.8748.434.445.403.4899.357.869.146.55786.
F -360.6667/ DATA (CV(J).1=1178.1261) / 0337.8775.627.4958.872.5834. 11076.8012.1243.7146.1376.718.1479.2840.1554.4117.1675.1526. 216.34.3338.164.6066.1638.4437.1618.1390.1585.8089.1543.3956. 31492.6718.1435.2466.1372.5717.1305.9494.1236.5403.1165.37133. 41093.3342.1021.2448,949.7509.87744.4810.8039.744.2426. 5680.0868.618.5975.559.9745.504.3634.4511.8613.402.5229.

BLOCK DATA ADATA	DATA 74/74 OPT=0 ROUND=*/ TRACE FIN 4.6+420	05450	13.54.00
	6356.3660.313.3757.273.5106.236.70495.202.87441.171.91823. 7143.72302361.4298. R03138.6375.429.0025.874.8106.1079.7102.1247.2559.1380.8857. 91483.9029.1359.44512.167536.1640.0043.1650.4635. A1646.404.6674.12281591.7378.359.1991.1498.2721.1440.6032.	1823. 30.8857. 3.6032.	
	B1377.6213.1310.6457.1240.8446.1169.2528.1096.77892. C1024.2159.952.2485.881.4617.812.3488.745.3197.680.7080. 0618.7789.559.7357.503.7270.450.8523.401.1681.354.6935. E311.414.771.2906.22537.200.22537.169.09829.140.76028.	40. 5. 75028•	
	DATA (CV(J),J=1262,1345) / 0.,339,2676,630,2513,876,6559, 11082,1195,1250,1873,1384,2887,1487,7202,1563,6297,1615,006, 21644,6770,1165,1264,287,1659,0094,1594,563,1553,8963, 31502,8006,1444,8881,1381,6265,1314,3317,1244,1780, 4172,2073,1099,33420,1026,35777,953,9697,882,7576,813,2230,	5559. 15.006. 9963. 3.2230.	
	5399-465-352-7355-309-2068-268-8597-231-6290-197-4296. 7166.1599-137-70468 362-5805- 80339-7848-531-2764-878-1700-1084-0953-1252-5892-1347-0743-	6. 7.0743. 7302.	
	#10.36.4.391.1500.4.6.31.174.236.1906.366.1448.6.237.1364.7199. #1317.136.124.6.64.31.174.3357.1101.1235.1027.77833.955.01405. CRR3.4.261.47.351.74.745.7066.6.80.332.6.17.6753.557.9362. D501.2712.447.7841.397.5346.350.5440.306.8000.266.2623. E228.8657.194.5259.163.1378.134.58873363.00197.	144. 5-01405. 3-	
	UAR (UV13)-3-1346-1447)	1,545, 365, 01,	
	5348-1666.104-2346-250-2047-4499-37003-449-64411-395-3030- 6348-1666.104-234-623-5391-226.0033-191-54568-160.06350- 7131-44094363-3729-880.3785-1086-9732-1256-0816-1391-115- 80.340.5404.632-7729-880.3785-1086-9732-1256-0816-1391-115- 914623-3447-1571-9358-1623-342-1653-8776-162-66-700-1658-780-	350. 91.115. 3.780.	
	81387-440.1300.7431.1249-575.1176.6446.1102.8048.1028.8411. 81387-440.1302.555.1249-575.1176.6446.1102.8048.1028.8411. C955.4459.P83.22665.812.6938.744.2726.678.3109.615.0859. D554.R118.497.6457.443.6945.393.0205.345.6466.301.5620. E260.757.273.075.188.52295.156.96574.128.85874.83363.6043/	3411. 59. 63.6043/	
	11087.9724.1257.20019.1392.5089.1496.9039.1573.6088. 21625.4008.1655.6443.1666.5348.1660.5964.1640.1809. 31607.4183.1564.2698.1512.5313.1453.8185.1389.6725.1321.3668. 41250.1138.1176.976.1102.8838.1028.6541.954.9948.8825.149.	21.3668.	
	6441.3899.390.5473.343.0230.298.8065.257.8581.220.1127. 7185.4845.153.86970.125.151337363.8076. 80341.0062.633.6942.881.735.1088.735.1258.2101.1393.564. 91498.7707.1574.8606.1652.9093.1657.0297.1667.8669.1661.895.	7. 564. 61.895.	
	81321.7013.1250.2248.1176.8741.1102.552.1028.0884.954.1942. C881.4789.810.45852.741.5637.675.1468.611.4892.550.8086. D493.2553.438.9684.387.9815.340.3307.296.0041. E254.9730.217.1419.182.45465.150.79786.122.053264363.9585/ D474.(CV(1).13.151419.182.45465.120.79786.122.053264363.9585/	.1942, 86, 53.9585/	
	11089.310.1258.901.1394.3529.1498.9373.1575.7825.1627.8625.	.8625•	

8	N	21657.9892.1668.8073. 31513.8955.1454.8R29. 41101.9039.1027.2584. 5673.2700.609.4561.54. 5737.5987.293.1819.25. 7119.0109364.0649. 80.341.25563.634.205.	21657.9892.1668.8073.1662.7908.1642.24.28.1609.2955.1565.9131. 31513.8955.1454.8829.1390.3615.1321.6703.1250.0075.1176.4388. 41101.9039.1027.22584.953.1174.4800.19190.809.809.966.46.739.87406.641.305.3570.609.4361.548.5915.490.809.803.405.966.41.305.3562. 6137.5987.293.1819.2552.0659.214.1858.179.4551.147.7697. 7119.0109344.0649. 804.8799.142555.4534.20591.882.46487.1089.7023.1259.3676.3582.	.7908.1642.2 .3515.1321.6 .11784.880.1 15.490.8975. 59. 214.1858 82.48487.108	428.1609. 703.1250. 9190.808. 436.4641. 179.4551. 9.7023.1658.	.2955.1565. .0075.1176. .96646.739. .385.3562. [.147.7697. .559.3678.	.4388. .874046.			
595	4 E U O W	1661-2854-1 1390-1351-1 951-8033-87 546-2870-48 249-1925-21	A1667.2854.1642.6607.1609.6173.1566.1209.1513.9726.1454.8146. R1390.1351.1321.2753.1249.4357.1175.6842.1100.9632.1026.0977. C951.8033.478.690.6807.29042.738.026777.671.25908.607.2729. D546.2870.488.4639.433.9146.282.7044.334.8587.290.3579. E249.1925.711.27.176.5055.144.8026.116.0397364.1341/	.6173-1566-1 .4357-1175-6 042-738-0267 45-282-7044-	209-1513- 842-1100- 77-671-2334-8597- 6-0397-	.9726.1454. 9632.1026. 5908.607.27. 290.3679.	.8146. 10977. 229.			
300		1628.79276. 1556.0163.1 1174.5893.1	11049.95104.1259.65974.1395.20522.1449.484311.1576.7210. 21658.79276.1658.8740.1669.6686.1663.4710.1642.7650.1679.6246. 31566.0163.1513.7430.1454.4481.1389.6218.1320.6069.1248.6062. 41174.4893.1909.8008.1054.7477.25950.3751.877.0361.805.47562.	75.20292.149 95.20292.149 9.6086.1663. -4481.1389.6 -76772.950.3	9.84831.1 9.84831.1 4710.1642 218.1320.0751.877.	1576.7210. 1576.7210. 2.7650.1609. 6069.1249. 0361.805.4	.6246. 6062. 7562.			
305	0 0 0 0	390.0505.33 141.91120.1 0.341.3721 1395.3562.1	7.1315-605-03 2.1326-287-58 2.1326-287-58 5.634-4141-88 6.53-6167	27.246.3615. 4.1723. 2.78515.1090 6.8533.1628.	.0806.125 8952.1656	59.80603.	.6101.			
316	- B O O O O O O O	1993-8751-11 948-8743-871-19 541-53828-4 543-58975-2 0ATA (CV(J) 1090-11172- 1668-91172-	### ##################################	.5707.1173.5 .5707.1173.5 .5707.1173.5 .707.1173.5 .707.1173.107 .707.1173.1173.1173.1173.1173.1173.1173.	042.1098. 042.1098. 626.4412. 67.110.36. 431.634.153.		2820. 847/			
320	3 7 2 2 2 5	1318-6572-11 946-94204-8 539-14907-44 240-8919-20 0-341-3755	41313.4572-1244.3750-1172-17274,1094.9979.1021.68081. 5946.94204.4873.4004.801.58077.731.92154.664.7782.600.4485. 6539-14097.4481-04448-427-2475.374.87247.326.8024.222.21713. 7240.8919.702.9986.1164.40724.107.67329. 344.1762. 80.341.37555.674.41769.8872.78260.1090.06260.1259.76063.	.17274,1096, 8077,731,921, 2475,374,824, 39,136,40224, 882,78260,10	9979.1021 7.326.802 7.326.803 107.6736 90.06250	1.68081. 782.600.448 24.282.1713 29364.17 1259.76063	55.			
325	₹ & C C W G	1669.0418.1 1452.0818.1 1095.4364.1 729.80553.6 372.2891.32	Al664.0418.1562.5770.1641.7127.1508.2827.1564.35685.1511.7 81452.0818.1386.8736.1243.17.4564.1545.05872.1170.7333. 61055.4364.1019.99938.945.14408.871.49049.799.56450. 0729.80553.662.5681.598.1548.536.7805.478.610416.423.75765. 837.28991.374.2312.279.5747.238.2800.200.2814.165.4911.	1.7127,1608. .4636,1245.0 .14408,871.4 548,536.7805	2827,1564 5872,1170 9049,799, 478,6104	35686,151).7333, .56450, .16.423.757	11.7408.			
330		END	6660-50					H51C037		
SYM	SYMBOLIC REFERENCE MAP (R=3)	CE MAP (R=3								
VARIABLES 3 CV	SN TYPE PEAL	ARRAY	RELOCATION BLK1	REFS 80	2 9	DEFINED 112	128	144	33	176
1 DELTA	TA PEAL	ARHAY	08LK	207 REFS	55.	OEF INED	254	569	584	662

	40106164	
C C.C.ELLIS	HS18002	
C **PROGRAM TO PRINT ERROR NO JOB NO ETC. OFF AND/OR ON-LINE.	HS18003	
	HS18005	
	HS18006	
N2	HS18007	
	HS18008	
	HS18009	
(2) 2N	HS19010	
	HS19011	
N2 (3)	H519012	
	H519013	
	4519014	
	HS19015	
N2 (4)	HS190151	
	H5140152	
	H5190153	
U	H5190154	
N2(5)	4519615H	
	HS190155	
	HS180156	
	HS180157	
C FROM WHICH ERN WAS CALLED IN CALLING PROGRAM. N3 MUST BE A	H5130158	
	H5190159	
	HS19016	
	1106164	
DIMENSION NZ (S)	H518018	
S	HS130181	
N2(5) = N2(5) + 1 WRITE (6,900) N1,N2(1),N2(2),N3	H5180199	
20100000		
900 FORMAT(IINGERHOR NO. •13-15H. PROCEDURE +83+15H. SUBNOCIONE 186-17H. STATEMENT NO. •15) FNO.	Tropish	
	COCTO	

2+32 DEFINED DEFINED
31
DEFINED 32 REFS REFS REFS DEF LINE REFERENCES
34 32 RELOCATION
AY F.P. REFERENCES SYMBOLIC REFERENCE MAP (R=3) ARRAY DEF LINE SN TYPE INTEGER INTEGER MODE FMT STATEMENT LABELS
23 900 FMT ENTRY POINTS FILE NAMES
TAPE6 VARIABLES 0 N1 0 N2 0 N3

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SUE	SUBROUTINE FINISH 74/74 OPT=0 ROUND=+/ TRACE FIN 4.6+420	09/02/17 13	13.54.00
-	SUBROUTINE FINISH	H51F003	
	U	HS1F004	
1		HS1F005	
2	/ABLK/	HS1F006	
	/BALK/	H51F007	
		HS11008	
	/EMLK/	400116	
:	/GALK/	HSIFOIL	
0	CONTROL VIEW NO. CONTRO	210154	
	NBI K	HS16014	
	/Bal K	TO JEST	
	/RRIK/	H51F016	
15	/SAIK/	HSIF017	
	/xPLK/	P6H51F021	
		H51F022	
		H51F024	
	WRITE (6,10) (ICM(I),1=1,10)	H51F027	
20	10 FORMAT(1H1.10x.10A5)	HS1F028	
	WHITE (6.20) H(ILH), XK, E, XMU, RZERO, DELTA(ILD)	HS1F029	
	20 FORMAT (1H0,10x,22HRUNWAY CHARACTERISTICS / 11x,3MH =,F8.3,	H51F030	
	1 4H(IN).5x.3HK =.F8.1.11H(LBF/IN**3).5X.3HE =.F10.1 /	HS1F031	
	2 11x,4HMU =,F6.3,5x,4HR0 =,F8.2,4H(IN),5x,7HDELTA =,F7.3)	HS1F032	
52	WRITE (6.30) XLA.XLB.XLC.XLD	H51F033	
		H51F034	
	I IH +10x+3HA =+F7.2.4H(IN) B =+F7.2.9H(IN) C =+F7.2.	H51F035	
		H51F036	
	WRITE (5.40) XNA.XNB.XNC.XND		
30	40 FORMAT(IH .10x.44NA =.F5.1.6x.44NB =.F5.1.6x.44NC =.F5.1.6x.44ND	**	
	1 - 5 - 5 - 5	H51F039	
		H51F040	
	SO FORMATCHIA 10x 25 HCONTACT AREA OF ONE TIRE #+F9.2-8H(SQ.IN.)	H51F041	
,	SHPHIE	HS1F042	
3		H51F043	
	60 FORWATCHO, 10x.20HINFLATION PRESSURE =.F7.1,5H(PSI)	HS1F044	
	WHITE (5,70) 6,8	H51F045	
	CONTRACTION TO A LINGE AN LOAD STRICT TO STRICT OF STREET AND STRE	040415417	
	000000000000000000000000000000000000000	100001	
2	CONTINUES - CONTIN		
	ON THE VERY CONTRACT OF THE PROPERTY OF THE PR		
	-	HS1F051	
	2 14 -10x-17HPAVEMENT STRESS =-F11.3-SH(PSI)//)	HS1F052	
57	S00 CONTINIE	H51F053	
		H51F043	
	110 WRITE (4-120)	HS1F064	
		H51F065	
0	500.00	20015	
200	MATTER (4.170) - CONT. (1.1) - MOTING (1.1) - GAMMA(1.1)	HSIFOAR	
	FORMAT ((10H	HS1F069	
	CONTINUE	HS1F070	
		HS1F071	
25	00 000 INOG = I - NOG	H51F0725	
	H	HS1F074	
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13.54.00			INHIBITED.																DEFINED																	
77/20/60	H51F075		BE INHIB										51			19			2.56	3		25														
			II										7			DEFINED			5041	;	64	64														
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			COMMON OR EQUIVALENCED. OPTIMIZATION COMMON OR EQUIVALENCED.				S	•	ه م	, ~	~	ac o	• •	0,4	6 5	61	=	==	::			15	12	13	13	2:	2.4	. 2	15	99	91	0 4	91	91	16	71
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74/74		DIAGNO	CONTROL	MAP (R=3)	REFER 57	R				ARRAY			ARRAY		ARRAY		ARRAY									*****	4 2 2 4		ARRAY	ARRAY						
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SUBROUTINE		CARD NR. SEVERITY		SYMBOLIC	ENTRY POINTS 2 FINISH			900	A I GY	DELTA	DPR	. ·	GAMMA		I CLE	-	101	110	INOG	156	7	902	TAN	a	3IHd	Total o	800	PZERO	SIGHA	4	**	X L A	x CC	XLD X	NWC	XNX
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16 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41	RELOCATION XBLK XBLK XBLK
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REFS REFS REFS NOT INNER 1 BIGY (1) 1 DELTA (10) 1 GAMMA (10) 1 1 ILD 13 INOG (1) 1 NOH (1) 1 NOH (1) 1 RZERO (1) 2 RVHTST 1 XLA (1) 2 XLB 4 XLD (1) 6 XND 7 XNB (1) 7 XNB (1) 13 ZP (1000) 11 XOP3	
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BIGY (1) 2 B BELTA (10) 11 GPRINT 11 ILD 11 I	MEMBERS - BIAS NAME (LENGTH)
GAMMA (10) 11 GPRINT 11 LD 11	
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PAGE 09/02/77 13.54.00 FTN 4.6-420 74/74 OPT=0 ROUND=+/ TRACE 3102 3268 STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH SUBROUTINE FINISH

SUBR	SUBROUTINE GEOM	74/74	OPT=0 ROUND=*/ TRACE	1 /*= GNL	RACE	FTN 4.6+420	• +50	09/02/77	13.54.00
-				SUBROUTINE	INE GEOM			H516003	
	ပပ							H516004	
•	U	X ISS NORMON	10011001					H516005	
								H516013	
				ILH.				H516014	
		COMMON /RRLK/		N.XN.TON	NOG.NOH.NPT.NX.NY.NOD.NOSG RPD.RZERO			H516015	
0.				B. XLC.X	XK.XLA.XLB.XLC.XLD.XMU.XNA.XNB.XNC.XND.XNT.XOP3.XOP6H516021	. XNC . XND .	XNT. XOP3. XOF	P6H516021	
	-	NOMAC NOMAC		10) • xPZ (01	*ZP(100*10)*XPZ(4097)			H516022	
		XLA /	u	1.0011	1160417111 10			H5160272	
		= xLB /	P7ER0					HS16028	
15		= xLC /	RZERO					HS16029	
		WR = (xNA-1.)	* XLAP .	XNA * (XN	8-1-1-1+XLBR			H515031	
		XLR= (XNC-1.)	· XLCR ·	XNC+ CXN	(XNC-1.) * XLCR * XNC* (XND-1.) * XLDR			HS16032	
00		NX = (XNA+XNB+1.)		2.0 + 0.0001	000			H516033	
2				00.0				H516035	
			-xL8R					H516036	
			•					HS16037	
20		(2)	-xLOR					H516039	
C		N = 1 01 00	1000 • 0 • 000 I					HS16040	
		• H						HS15041	
		ER(1+5	- 2	- XLBR -	ER(3) * XLBR - ER(2) * FLOAT ((I-1)/N1)	((1-1)/N	•	HS16042	
,	10	CONTINUE						H516043	
30		0.0 - UNX = 5N	10000					HS15044	
		ER (6) = J - 1						HS16046	
		ER(J+7) = XLR2	12 - ER (6) + XLDR		- ER(S) . FLOAT ((J-1)/N2)	(()-1)/N2	•	H516047	
'n	20	CONTINUE						H516048	
6		N 1 1 N						H515050	
		IF (ABS (ER (NX+50))		1.6-07	- 1.E-07) 30,30,40			H516051	
	30	# (05+x	.0					HS16052	
94	07	NX II IXN						H516053	
;		9	*					H\$16055	
		- 3	×					HS16655	
		XP7 (NPT) = ER	= ER(I+50)					H516054	
5,			= ER(J+7)					HS16059	
	20	CONTINUE						HS16050	
	3	IF (ABS(ER(NY+7))	W-711 - 1.	.E-07)	- 1.E-07) 70.70.75			HS16052	
	10	ER(NY-7) = 0.						H516063	
20		NY] =NY-]	105-105-80					HS16054	
	90	001 00	= 1.NY1					H\$16056	
		No. 1 = 1.00	××					HS16057	
55		XPZ (NPT) = ER	= ER(1.50)					H516069	
	ő		(4-1)					HS16070	
		1000						1.00164	

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50			2*33	22	45.	\$ 25	121	38	36	89
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			2 5 7	2 %	92.92	. W T & & & & &	8 F C	B DEFINED	59	51
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OPT=0 ROUN	123.123.107 = 1.NY = 1.NX1 = -ER (1.50) = ER (1.7) 145.145.125 145.145.126 145.145.126 145.145.126 145.145.126 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NCES	RELOCATION EBLK EBLK		18LK 18LK 18LK	2 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	NBLK	NBLK	NBLK	
74/74	CONTINUE I (NXI) 123-123 DO 120 J = 1.NY DO 110 I = 1.NXI NPT = NPT + I XPZ (NPT) = ER(J CONTINUE C	REFERENCES 77	REL		ARRAY					
NE GEOM	000 0000 000	DEF LINE	SN TYPE REAL REAL		REAL INTEGER INTEGER INTEGER	INTEGER INTEGER INTEGER	INTEGER	INTEGER	INTEGER	INTEGER
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		ENTRY 2	VARIABLES 0 E 1 ER		330	332	~	3	333	334

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30	*1	21		DEF INED	28	DEFINED	200	33	53	9.	161	20	20		**	;	45																
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OPT=0 ROUND=+/ TRACE	LENGTH	178	178	208	138	208	138	208	138	20B	138	- BIAS NAME (LENGTH)	w	I	ICH	NOG	×N	NOSG	RPD	×	xLC	ANX	QNX	940x	ZWA	221
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74/74	ROM-TO	26 29	31 34	41 47	45 46	52 54	53 57	60 66	61 65	69 75	70 74	MEMBERS														3358
1														0	_	1			2						1	HON LENGTH
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SUBROUTINE GEOM	ABEL		•	•		• 00	•	• 02	01	. 05	130	OCKS	3LK	HBLK	3CK	3CK			RBLK	3LK					YBLK	ATISTICS PROGRAM LENGTH CM LABELED COMP
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SUBROUTINE OUTLNE	NE OUTLI	74/74 OPT=0 ROUND=*/ TRACE FTN 4.6+420	11/20/60	13.54.00
-	u (SUBROUTINE OUTLNE	H510004 H510002	
s	J ()	DIMENSION DELTAR(10)	HS10005	
	J.	/ARLK/ A.AP(10).AH(10).AK(10).ASIG(10).AG(10)	HS10007 HS10008	
10		COMMON /UNIX/ UPX.UELLATIO) COMMON /GFR/K G.GAMMA(10),GPR/NT(100.10)	H510012	
		/ RLK/	H510014 H510015	
51		COMMON /PRLK/ P.PI.PVHTST(10).PHIE COMMON /RBLK/ RPD.RZERO COMMON /RBLK/ SIGMA110) COMMON /SRLK/ SIGMA110) COMMON /XRLK/ SIGMA110	HS10016 HS10017 HS10018 HS10021	
50			H510025	
\$2		SAM(PX)=(1.*(PHIE-1.*)*PX**3)*(SIN(PI*PX/Z.*))/PHIE S = SQRT(A/(PI*PHIE)) T = SQRT(A*PHIE/PI) SR= S/RZERO H T = TAPFGOO	H510028 H510029 H510030 H510031	
30	~ 00	GO TO 8 ELTA(ILD)/RZERO	HS10033 HS10034 HS10036	
35	15	TOWN 1	HS10040 HS10040 HS10040	
ç		GO TO 10 EG. 0.) GO TO 20 OG) - 90.*RPD) .LT. 1.0E-7) GO TO 30 • SR*TAN (GAMMA(INOG))/SORT((TAN (GAMMA(INOG))) **2 • TR*PILD)*COST (GAMMA(INOG))	HS10065 HS10066 HS10066	
Ş,	01		H510049 H510050 H510051 H510052	
20	0 0 0 0	XZEROP = -(DELTAR(ILD) + XPZ(NX)) YZEROP = -(YPZ(1) + TR) KZEROP = -(XPZ(1) + SR) YZEROP = (DELTAR(ILD) + YPZ(NY)) M = B/4.0 + 0.999999999999999999999999999999999	H510056 H510056 H510056 H510057	
25	U	START LOOP ON TIRE POINTS	H510060 H510061 H510062	

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H510063 H4A(INOG)) H510065 H4A(INOG)) H510065 R510067 H510069 H510069 H510069	H510072 H510073 H510074 H510075 H510075 H510077	H5100079 H510081 H510083 H510083 H510084 H510084 H510086 H510086	ZEROP) - SIN(GAMMA(INOG)	260015H	1ND) H510107 H510109 H510113 H5101095 V* IND) H510114
NT= 0 XZERO=XPZ(IPT) + SR - XZEROP YZERO=YPZ(IPT) - YZEROP ZZERO=YPZ(IPT) - YZEROP ZZERO=XZERO*COS(GAMMA(INOG))-YZERO*SIN(GAMMA(INOG)) WZERO=XZERO*SIN(GAMMA(INOG))+YZERO*COS(GAMMA(INOG)) START LOOP ON TIRE PERIMETER DO 200 J=1,KBP DO 200 J=1,KBP IF (1, LE, J, AND, J, LE, M) GO TO 60		XI=XPZ(IPT)-XEROP-TR*SAM(PX) 60 TO 90 PX = (2.*DM-DJ)/DM XI=XPZ(IPT)-XZENOP-SR*SORT(1SAM(PX)**2) 60 TO 90 PX = (DJ-Z.*DM)/DM XI=XPZ(IPT)-XZENOP-TR*SAM(PX) 60 TO 90 PX = (DJ-Z.*DM)/DM XI=XPZ(IPT)-XZENOP-SR*SORT(1SAM(PX)**2)	The second secon	AJINT WA IF (ZINT .6T. 0.0) ZINT AZINT GO TO 397 AZINT ZINT IF (ZINT .LT. 0.0) AZINT -ZINT WL = WI IF (WI.LE.VMA.AND.WZERO.LE.VMA) GO TO 410 IF (WI.LE.VMA.AND.WZERO.GT.VMA) GO TO 415 GO TO 420 MATERIAL COMA.	
° °	2	6 68 80 70	90	395 385 395	105 410 420 110 120

511	9 361	50 TO 130				20.00	
		IF (ARS(WZERO) .LT. 1.0E-05) GO TO 130	LT. 1.0E-05)	60 TO 130		HS101165	
	- z	1F (NT .GT. 1) GO	10 196				
120	127 4	WPITE (6.193)					
		11. PLEASE CHECK FOR ERROR. *)	FOR ERROR.	UNEXPECTED COORDINATE FOR TIRE PRIN	KUINAIE FOR	IKE VILIN	
(2)	130 T	TANS=TNA-TNB				HS10121	
125	- 0	IF(A7INT .NE. ZINT) TANS=-TANS GPRINT(IPT.INOG) = GPRINT(IPT.INOG) + TANS	NT) TANS=-TAN = GPRINT(IPT	S 1NOG) + TANS		H510128	
	×	x7ER0=x1				HS10129	
	~ ~	77ER0=71				H510130	
130	3 14	6	60 10 200				
	N 961	1.					
	~	IF (NE .GT. 9) GO TO 200	10 200				
135	1 007	IF (NE.EU.1) WRITE (6.400)	E (6.400)				
		WITE (6.191) AZ	INT. WI. WZER	0			
	191 F	ORMAT (1H0.32HD	ATA 15 011510	191 FORMAT (1H0.32HDATA IS 0UTSIDE LIMITS OF TABLE. /4x.7HAZINT 1 F15.7.5x.4HWT = .F15.7.5x.7HWZED0 = .F15.7:	E. /4X.7HAZIN	T =. H510111	
	200 C	CONTINUE		11.61 11. 0.133		HS10133	
140		IF (NE. GE. KBP) GPRINT (IPT. INOG) =0.0	SINT (IPT, INOG	0.0=0			
	401 F	OHMAT (1140A TOT	AL OF .15.55H	IF (ME.S.) . WHILE (5.40) NE. PI FORMAT (1) HOA TOTAL OF . 15.55H POINTS WERE OUTSIDE THE LIMITS OF	SIDE THE LIMI	TS OF TA	
	_	BLE FOR WHEEL LOAD . 15)	40 .15)				
345	۵ -	PVMTST(1N0G) = PVMTST(1N0G)	VMTST(INOG) .	PVMTST(1NOG) = PVMTST(1NOG) + GPRINT(1PT+1NOG)		H510134	
	230 7	P(IPT.IN06) = CO	S (GAMMA (INOG)	230 7P(IPT.INOG) = COS(GAMMA(INOG))*(XPZ(IPT)-XZEROP) - SIN(GAMMA(INOG)HS)0136	JP) - SIN(GAM	4A (INOG) H510136	
	-	1 10 (YP7 (IPT) -YZEROP)	1 dDe			H510137	
	3.	WP (IPT, INOG) = SIN (GA)	V (GAMMA (INOG)	WP(IPT. ING) = SIN(GAMMA(INGG)) + (XPZ(IPT) - XZEROP) + COS(GAMMA(INOG) HS10138	3P) + COS (GAM)	4A (INOG) H510138	
150	250 C	250 CONTINUE	1404			HS10139	
	>	YMN (INOG) =PZERO*PZERO/10000.0*P*PVMTST (INOG)	22ER0/10000.0	*P*PVMTST (INGG)		H510141	
	× 1	SIGMA(INUG)=6.0*YMN(INUG)/H(ILH)**2 IF(LR.E4.1) STOREI(JJ.ILH)*SIGMA(INUG)	74N (1NOG) /H (1	CMA (INOG)		H\$10145	
		F (LP.FO.2) STONE	15-(17.1LH) =SI	GMA (INOG)			
667	- C	1 (NOSG - EU - 0) 60 10 305	508 01 09			H513143	
	A	AP (156) = AG (156) / (XNT+A)	(XNTOA)				
	۹,	AH(155)=H7ER0*50	21 (ABS (16.0 %A	AH(155) =H7ER0*SQRT (ABS (16.0 *AP (156) *PVMT5T (1NOG)) / (10000. *ASIG	000001)/(100		
140	-	11.00.11	0.,00,,00,,00			H510147	
201	280 C	CONTINUE	• 0 1 1 2 0 1 1 0 5 1 1 0 •	CONTINUE		H510149	
		CALL CURVE				H510150	
	305	CALL FINISH				HS10151	
165	ī	IF (NOD .EQ. 0) GO TO 320	50 TO 320			H510153	
		10 = 100 + 1	. 0. 00			H510154	
	320 RE	RETURN	01.00			H510155	
		END				HS10157	

,																						29.2	140		791	3			2002	3+148	92	1						
PAGE											136								99		•	2.61	125		3	*			2.61	3.146	36	2 1	:	156	68			
13.54.00		7ED.									124						25		DEFINED	OEL THEO		24.5	33		9	•			2**2	3+144	DEF INED	140	?	DEF INED	5.69		35	
09/02/77 13.54.00		BE INHIBITED.					15/	158	:	157	112	66					8,		985	20.3		3.40	DEFINED		67	;	154		3.40	140	158	20125	621.2	3.160	5*68		30 DEFINED	The second secon
•420		IZATION MAY				;	\$2	DEF INEO	160	DEF INED	108	86				112	42		20.78	91.3		39	144		04	166	153	113	39	521.42	154	0000	26	3.158	2.67	154	DEFINED	
FTN 4.6-420		EQUIVALENCED, OPTIMIZATION EQUIVALENCED, OPTIMIZATION				:	157	2*160	DEF INED	158	96	95	45	94		108	204		2,2			38	125	152	2430	27	152	001	38	06+2	153	30	DEF INED	2*157	999	153	33	
u u		EQUIVALEN				•		7	~ 1	- ~	95	06	o .cc	œ	5 1	212	. 4	62	70	6	10	10	10	==	22	DEFINED	12	108	12	2*86	2*152	. 8	3.148	12	33	14	31	
OPT=0 ROUND=*/ TRACE	SLEM	COMMON OR					REFS	REFS	REFS	REFS	REFS	DEFINED	REFE	REFS	REFS	REFS	REFS	DEF INED	REFS	REFS	REFS	REFS	REFS	REFS	REFS	167	REFS	REFS	REFS	2*45	2.151	80	3.146	REFS	DEFINED	REFS	REFS	The second second
OPT=0 ROL	DIAGNOSIS OF PROBLEM	VARIABLE IN VARIABLE IN		ENCES		RELOCATION	ABLK	ABLK	ABLK	ABLK		3	BBLK	BBLK	MIXBLK	BLKI	הפרא			DALK	GBLK	GBLK	GBLK	HBLK	IBLK	401	IBLK	MIXBLK	IBLK					IBLK		HIXBLK		
74/74	DIAGNO	CONTROL	MAP (R=3)	REFERENCES	901	REI	APPAY	ARRAY	APRAY	ARRAY					ARPAY	ARKAY	ARRAY					ARRAY	ARRAY	ARRAY	ARRAY													
SUBROUTINE OUTLNE	DETAILS		SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	•		PEAL	REAL	PEAL	REAL	REAL	1100	REAL	PEAL	PEAL	HE AL	REAL		REAL	PEAL	REAL	REAL	REAL	1	INTEGER		INTEGER	INTEGER	INTEGER		TNTEGED	1		INTEGER	INTEGER	INTEGER	INTEGER	
SUBROUTIA	CARD NR. SEVERITY	36 I 156 I	SYMBOLIC	ENTRY POINTS	300	LES SN	94	AH	× 4	ASIG	AZINT	0	RIGX	PIGY	COVPGD	20	DELTAR		25	008	0	GAMMA	GPRINT	I			11.4	Y CNI	INOG		191			156	,	77	× 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
	CARD NR	15		ENTRY	•	VARIABLES	2.5	13	52	3,1	1317	•	v c	. ~	310	m -	1325		1310		•	-	13	•	0 5	:	12	1322	15		1300			14	1273	229	1272	

5			2•72 76 144 2•83	2*151	40	2
PAGE			2•71 75 31 2•80	3 %	84 2°102 136	27
13.54.00	5.69	130	2*42 2*84 72 0EF INED 2*79 82	45 152 75	124 80 2*101	13.
11/20/60	2.68	140	40 2.83 71 158 2.76 78	29 DEFINED	24 1123 116 76 95	117 06FINED
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FTN 4.6+420	153	133 28 28 36 107 107 108 108	2 • 7 9 2 • 7 9 2 3 1 4 4 2 • 7 2	39 25 0EFINED 153 51	DEFINED 92 92 123 123 449 88 98	0 6 F 1 N E D 10 2 10 2 10 4 10 4 10 4 10 4 10 4 10 4
	41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	131 133 133 133 133 133 133 133 133 133	2*76 15 15 80 15 2*71 DEFINED	50 50 50 50 50 50 50 50 50 50 50 50 50 5	11.2 11.2 11.2 11.2 12.3 10.0 10.0 10.0	988988888888
OPT=0 ROUND=*/ TRACE	REFS REFS DEFINED	REFS REFS REFS REFS REFS REFS REFS REFS	REFS 2475 749 749 8675 2484	REFS REFS REFS REFS REFS	REFS REFS REFS REFS REFS DEFINED	PETS PETS PETS PETS PETS PETS PETS PETS
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	VARIABLES 621 LR 1276 M	1302	14	1 1 1256 1270		1312

•		2	9 6	2	•				90	158	3	
PAGE		r.	8 8	2	8			871	5	83	8	
13.54.00		59	83 51 57	9	127 84 52	154		146	76	2	98	
11/20/60		148	79 48 DEF INED	151	2000	2.99		06	75	\$	158	
•450		48 146 DEFINED	25 45	DEFINED	DEFINED 76	146 146 61	141	98	526	r.	117	
FTN 4.6.420		368			2023	96 96 DEFINED DEFINED	136	85	17 8	3	1111	
u	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	919	S9 DEFINED 85	5 50 6	61 60 DEFINED	888 187 888 78	134	95	62 85	9	ES 88	8 6
40=4/ TRAC	REFS REFS REFS	REFS 79 REFS	REFS 148 REFS	REFS REFS	REFS 148	REFS DEFINED REFS REFS	120	19	2.4	112	REFERENCES 39 71	47 47 47 47
OPT=0 ROUND=*/ TRACE	RELOCATION XULK XULK XULK XULK XULK	XBLK		YBLK		XBLK	WRITES	REFE		23 108 2*40	DEF LINE	REFERENCES 167 28 38 39 39 44 44 44 44 44 44 67 67 113 113
74/74	RELO	ARRAY		ARRAY		ARRAY		ARGS 1 LIBRARY 0	1 LIARARY	1 LIBRARY 7 1 LIBRARY	ARGS 1 INTRIN 1 SF	DEF LINE 29 29 45 45 48 48 53 34 74 78 82 82 116 116 116
SUBROUTINE OUTLNE	SN TYPE REAL REAL REAL REAL REAL REAL	REAL	REAL	REAL REAL	REAL REAL	REAL REAL REAL	FMT	TYPE REAL	PEAL	REAL	NS TYPE REAL REAL	S.
SUBROUT				NHA NAA		ZINT ZER0	FILE NAWES TAPE6	COS CURVE	SINISH	SORT TABINT	INLINE FUNCTIONS ABS SAM	STATEMENT LABELS 32 7 34 8 144 10 153 20 164 30 164 40 0 50 0 51 335 40 440 80 641 125 661 125
	VARIABLES 10 xNC 11 xND 12 xNT 13 xOP3	1363	1313	1762	1304	1316	FILE	EXTERNALS COS CURVE			INLINE	32 A T E T S T A T E T S T A T E T S T A T E T S T S T S T S T S T S T S T S T S

PROPERTIES 155 92 185 185 92 185 185 92 185 185 185 185 185 185 185 18	STATEMENT LABELS	TINE OUTLNE		74/74	OPT=0 R	OPT=0 ROUND=+/ TRACE		FTN	FTN 4.6-420	09/02/77 13.54.00	13.54.	00
153 165 176 187 187 187 197 197 197 197 197	DEF LINE R	DEF LINE			FENCE							
ES	FMT	137		136								
ES	FMT 121	151		120								
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TES	168			165		65						
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EXT REFS NOT INNER	24	241		1 0								
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EXT REFS NOT INNER	418 107 105 420 108 103			105								
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EXT REFS NOT INNER EXT REFS EXITS EXT REFS EXITS EXT REFS EXITS EXT REFS EXITS 1 AP (10) 41 AP (10) 641 AB 6 1 BIGY (1) 6 BIGY (1) 7 BIGY (1) 7 BIGY (1) 6 BIGY (• K 30 35 168	168	168		•		NOT IN	NER				
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EXT REFS EXITS LAP (10) 11 AH 1 AFIG (10) 41 AG 1 BIGY (1) 2 B 1 OLLTA (10) 11 GPRINT 1 OLLH (1) 11 ILD 1 OLH (1) 11 ILD 1 OLH (1) 2 NPT 4 NY (1) 2 NPT 4 NY (1) 2 NPT 4 NY (1) 2 NPT 1 NEERO (1) 2 PVHTST 1 XLA (1) 5 NUB 1 XLA (1) 6 NUB 1 XLA (1) 6 NUB 1 XLA (1) 7 NUB 1 XLA (1) 7 NUB 1 XLA (1) 8 NUC 1 XLA (1) 8 NUC 1 XLA (1) 7 NUB 1 XLA (1) 7	• 19T	26 150		6278					NEB			
31 ASIG (10) 31 ASIG (10) 31 ASIG (10) 41 AG 1 BIGY (11) 2 BIGN 110 ILH (10) 13 INOG (11) 4 NY (11) 5 NOD 100 STOREZ (100) 200 COVRGO 401 LR 1 NLA (11) 2 RUH 4 XLA (11) 2 RUH 5 XNU 1 XNH (11) 1 XNH (11) 1 XNH (11) 1 XNH (11) 2 RUH 5 XNU 1 XNH (11) 1 XNH (11) 1 XNH (11) 2 YNH 5 XNU 1 XNH (11) 1 XNH 1 XNH (11) 2 YNH 1 XNH 1 XNH (11) 3 ZP (1000) 1019 XPZ 1 NW (11) 2 VMA	200 • J 65 139 4758 280 • ISG 156 141 268	65 139 156 141		4758					15			
31 AP (10) 11 AH 18 A 19 A	S LENGTH	MEMBERS	MEMBERS - BIAS NAME (LEN	BIAS NAME (LEN	AE (LEN	GTH)						
31 A51G (10) 41 AG 1 B1GY (1) 2 B 1 CAMMA (10) 11 GPRINT 10 ILH (1) 11 ILD 13 INOH (1) 2 NPT 4 NY (1) 2 NPT 4 NY (1) 2 NPT 5 NOD 100 STORE2 (100) 200 COVRGD 401 LR (1) 2 PVMTST 1 RZERO (1) 2 RUB 4 KLD (1) 2 RUB 5 XMU 7 XNB (1) 8 XNC 10 XNT (1) 11 XOP3 10 XP (1000) 1013 XPZ 1 NW (1) 2 VMA	51			(1) ¥ 0	3			1 AP		1	1 AH	(10)
DELTA (10) 1 GPRINT 1 GPRINT 1 GAMMA (10)	2				10			31 AS16		1	1 AG	(10)
10 1CH (10) 11 GPRINT 10 1CH (11) 11 1LD 13 1NOH (11) 2 NPT 4 NY (11) 2 NPT 4 NY (11) 2 NPT 4 NY (11) 2 NPT 5 NOD 100 STORE2 (100) 200 COVRED 402 JJ 1 PI (11) 2 PVMTST 1 RZERO (11) 2 RUH 5 XMU 6 XMU 7 XNH (11) 11 XOP3 10 XNT (11) 8 XNC 10 MM (11) 10 MP 7 NNH (11) 10 MP 7 NNH (11) 2 YMN 7 NNH (11) 10 MP 7 NNH (11) 2 YMN 7 NNH (11) 10 MP 7 NNH (11) 2 YMN 7 NNH (11) 10 MP 7 NNH (11) 10 MP 7 NNH (11) 10 MP 7 NNH (11) 2 YMN 7 NNH (11) 10 MP 7 NNH (1	11	X 900 0			3			1 8167			9	î
10 1LH (1) 11 1LD 13 1NOG (1) 2 NPT 4 NY (1) 2 NPT 4 NY (1) 2 NPT 5 NOD 400 1LR (1) 2 PVMTST 1 RZERO (1) 2 PVMTST 1 RZERO (1) 2 RXB 4 RXB	1011	500			3			SAMM		1	GPRINT	(1000)
10 1LH (1) 11 1LD 11 1LD 11 1NOG (1) 2 NPT 2 NPT 4 NY (1) 2 NPT 5 NOD 401 LR (1) 2 PVMTST 1 RZERO (1) 2 PVMTST 1 RZERO (1) 2 RXB 4 RXB 6 R	r	1	r	r	10							
1 NOH (1) 2 NPT (1) 6 NOD (1) 6 NOD (1) 6 NOD (1) 6 NOD (1) 7 NUB	7	2010	100	100	9			10 ILH		-	1 100	3
100 STOREZ (100) 200 COVRED 402 JJ 1 PI (1) 2 PVMTST 1 RZERO (1) 2 RVMTST 1 KNH (1) 5 KNU 6 KNU	NBLK 7 0 NOG (1)	(1) 90N 0 L	(1) 90N 0	0 NOG (1)	33			HON			1 NPT	(1)
100 STORE2 (100) 200 COVRGO 401 LR 1 PI (1) 2 PVMTST 1 XLB (1) 4 XLD (1) 7 XNH (1) 10 XNT (1) 2 YMA	3 NX (1)	3 NX (1)	3 NX (1)	3 NX (1)	33			¥ N4			00N S	0
401 LR (1)	MIXBLK 403 0 STORE1 (100)	0 STORE1	0 STORE1 (100)	0 STORE1 (100)	(100)			100 STOR	E2 (100)	20	0 COVRGD	(500)
1 PI (1) 2 PVMTST 1 RZERO (1) 4 XLA (1) 5 XNU 7 XNH (1) 10 XNT (1) 13 ZP (1000) 10 WP (1000) 10 WP (1000) 10 WP (1000) 2 VMA	XIMI 005	XIMI 005	400 IMIX (1)	0 IMIX (1)	3			401 LR	:	0,	2 77	:
1 RZERO (1) 4 XLA (1) 5 XLB 7 XNB (1) 10 XNT (1) 13 ZP (1000) 10 WP (1000) 10 WP (1000) 2 VMA	13 0 5 (1)	0 6	(1)	(1)	23			I bI	î		2 PVMTST	(10)
1 XLA (1) 2 XLB 4 XNC (1) 6 XNC (1) 6 XNC (1) 7 XNU (1) 7 XNU (1) 11 XOP3 10 WP (1) 10 10 0 YPZ 1 NW (1) 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 711	2 0 480 (1)	11 314 0	11 0000	33			1 0750				
1 XLA (1) 2 XLB 4 XLD (1) 5 XMU 7 XNH (1) 8 XNC 10 XNT (1) 1013 XPZ 10 WP (1000) 1013 XPZ 1 NW (1) 2 VMA	SBLK 10 0 SIGMA (10)	O SIGNA			(10)			1 4754				
4 XLD (1) 5 XWU 7 XNH (1) 8 XNC 10 XNT (1) 11 XOP3 13 ZP (1000) 1013 XPZ 10 WP (1000) 2 VMA	5110 0 xK	0 **			3			1 XLA	(1)		2 xLB	=
13 ZP (1000) 1013 XPZ 10 WP (1000) 1010 YPZ 10 WP (1000) 1010 YPZ 10 WP (1) WPZ 10 WPZ					3			d x to	3		Owx S	ē
13 XN (1) 11 XOP3 13 ZP (1000) 1013 XPZ 10 WP (1000) 1010 YPZ 1 NW (1) 2 VMA	4 2 2	4 2 2	4 2 2	4 2 2	3			HNX	3		XXX	(1)
10 WP (1000) 1010 VEA	21	X OP 6	X OP 6	X OP 6	33			INX OI	(1)	101	1 x0P3	(1)
1 NW (1) 2 VMA		NIL			10			10	(1000)	101	ZAY 0	(4097)
	1767 0 NZ	ZN 0			3			2	(1)		AMV S	ĉ

PAGE 09/02/77 13.54.00 FTN 4.6-420 74/74 OPT=0 ROUND=+/ TRACE STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH SUBROUTINE OUTLNE

-	SUBROUTINE PROBRD	HS1P004	
		F00013H	
	DIMENSION KERN(S)	HS1P004	
s	· ·	HS1P005	
	COMMON /ARLK/ A.AP(10).AH(10).AK(10).ASIG(10).AG(10)	HS1P007	
	/BBLK/	HS1P008	
•	TOTAL SECTION OF THE CONTRACT	0000	
2		HS1P010	
	/GALK/	H51P012	
	COMMON /HALK/ H(10)	H51P013	
;	COMMON /IBLK/ ICM(IO)	H51P014	
15	COMMON YOUR X DOG NOT DAILY NY NOON NOOSON XX	3100137	
	COMMON ARBITA RESIDENCE	HS10017	
	COMMON /XBLK/ XK.XLA.XLB.XLC.XLD.XMU.XNA.XNB.XNC.XND.XNT.XOP3.XOP6H51P021	X0P6H51P021	
00	DATA KENN / JHHS1.6HPROBRD.1.0.0 /	H51P028	
03	DI = 3.1415927	HS12030	
	1970-081 = 890	1510031	
	RPD= P1/190.0	H510032	
	READ (7.10) (ICM(I).I=1.10)	H51P033	
25	10 FORMAT (1046)	HS1P034	
	WRITE (6.20)	HS1P035	
	20 FORVATURAL . 19X . 35HP R O B L E M I N P U T D A T A 1	HS10036	
	20 CODMAT (140 110 CM(I) - I=1-10)	HS1P037	
30	SOUND SEAL OF STATE O	95 04 151	
2	G# 754G	ACALIEU .	
	IF (LF !NC.EQ.3) 6=.75.6		
	GROSS LOAD REDUCED TO ALLOW FOR LOAD TRANSFER		
ļ	1000 FORMATILHN.3X.STHLOAD REDUCED 25% TO ALLOW FOR LOAD TRANSFER ACCRO	CCRO	
35	SS JOINT		
	** I TE (6.1000)		
	IOTA I IOTA		
	40 FORMAT (SF10.9)	HSIDOFO	
0,	IF (XNOH) 200. 200.	HS10041	
	200 CALL ERN (01. KERN. 200)	451P042	
	20% CALL FRA (02. KFRA. 205)	100000	
45		HSIPO45	
	IF (XNOG) 220. 220.	H510347	
		HS10048	
	60 10 8990	670d1SH	
20	255 JF (XNUG = 10.) 230. 230. 215	1510050	
3		1510052	
	230 IF (P.EO.0.0.AND.A.EU.0.0) GO TO 240	HS15053	
		1510056	
55	45 FURNAL FILLORARIE OF THE CONTROL	CC04[SH(N]	
	WRITE (6.50) XX G. P. A. XNOH. XNOG	HS19057	
	SO FORMAT (1H .5x.F7.1.5x.F10.1.5x.F7.1.5x.F9.1.2(5x.F4.1))	HS12058	

13.54.00				5 E 4 E			S = 2
11/20/60	HS1 P050 HS1 P050 HS1 P051 HS1 P052 HS1 P052 HS1 P055 HS1 P055	HS1P050 HS1P070 HS1P070 HS1P071 HS1P071 HS1P072 HS1P073	SMALL D(IMS1P075 HS1P077 HS1P077 HS1P079 HS1P079 HS1P090	HS1P0902 HS1P0903 HS1P0905 HS1P0905 HS1P091 HS1P093	HS1P084 HS1P085 HS1P086 HS1P0885	HS 10091 HS	H51P097 H51P098 H51P099 H51P099 H51P100
FTN 4.6.420	950		SMALL C(IN)	X,F4.1) p3 X,3HXND,9X,6HPHI(E),	=1,NPT) =1,NPT) YPZ(I) (IN) ,/,10F11.2) GY, XOP6 IGY, XOP6 OPT,3X,5HBIG X,7X,5HBIG Y,6X,		
RD 74/74 OPT=0 ROUND&+/ TRACE	GO TO 245 CALL ERNINS. KERN. 240) GO TO 8990 READ (7.44) XLA. XLB. XLC. XLD. XNOD. XNOSG TF (XNOD) 250, 255, 255 CALL ERN (06. KERN. 250) GO TO 8990 TF (XNOD) 265, 265, 266				WRITE(6.43) (ERX(I).ERY(I).I FORMAT(IHG.23x.22MXPZ(I). NX=NY= (7.40) 8, XOP3. BIGX. BI WRITE (6.75) 8, XOP3. BIGX. BI FORMAT (190.8X.1)HB.6X,9HPRINT AMCCOR OFT /IH .5X.672.15X.64	WGITE (6.40) (H(I).I=1.NOH) BO FORMAT (1H0.30x,9HH(I) (IN) / IIH .2x.6(F7.2.4x) READ (7.42) (GAMMA(I), I=1.NOG) WPITE (6.45) (GAMMA(I), I=1.NOG) BS FORMAT (1H0.27x,14HGAMMA(I) (DEG)/ IIH .2x.6(F7.2.4x) IF (NOD.2.2.00) (DG TO 97) PEND (7.2.2.00) (DG TO 97)	MEAN 14.27 (DELTAIL), I=1.NOD) WRITE (6.90) (DELTAIL), I=1.NOD) 90 FORMAT (140.30x,8HDELTAIL) 114 .2x.6(F7.2.4x) 97 If (NOSC. EG. 0) GO TO 99 READ (7.92) (ASIG(I), AG(I), I=1.NOSG) WRITE (6.95) (ASIG(I), AG(I), I=1.NOSG)
SUBROUTINE PROBRD	245	265 270 270 275 280	6	70	63 73 67	8 99	92 94
	9 4	2	2 8	80	8 8	100	9.

Source Thomas											
	95 FORM 99 DO 300 CONT	FORMAT (140. 50 300 1 = 1 60MMA(1) = 6 CONTINUE	FORMAT (140.6x,744SIG(I),9x,544G(I) / 00 300 I = 1.NOG GAMMA(I) = GAMMA(I)*RPD CONTINUE	, 9X,5HAG(I)		2(5x.F10.1)/)		HS1P101 HS1P105 HS1P106 HS1P106			
	TF (A LA CALL	XNT=XNA*XNG*XNC*XND IF (NPT - 4096.001) CALL ERN (10, KERN, GO TO 8990	XNT=XNB=XNG=XND IF(NPT -6T. 0) XNT= NPT IF (XNT - 4096.001) 410. 4 0 CALL ERN (10. KERN, 400) GO TO 89991	400 +000				HS1P114 HS1P115 HS1P1151			
	410 IF 490 P = 500 A = 510 G =	IF (A) 490, 50 P = G/(A*XNT) GO TO 510 A = G/(P*XNT) G = A*P*XNT	500• 490					HSIP116 HSIP117 HSIP118 HSIP119			
	END	Z						H51P128			
2	SYMBOLIC REFERENCE MAP (R=3)	4AP (R=3)									
	DEF LINE	REFERENCES 129	ENCES								
S	TYPE	HEI	RELOCATION								
	REAL		ABLK	DEFT NED	30	127	26	154	13	128	
	REAL	ARRAY	ABLK	SEES	-	114	DEF INED	112			
	PEAL	ARRAY	ABLK	REFS							
	REAL	ARRAY	ABLK	REFS							
	REAL	ARRAY	ABLK	REFS	-	114	DEF INED	112			
	PEAL		BALK	BEFS	no or	95	DEFINED	3 0			
	PEAL		BBLK	REFS	0 00	95	DEF INED	76			
	PEAL	ARRAY	DULK	REFS	10	105	DEF INED	107			
	REAL		DBLK	REFS	0	DEF INED	22				
	PEAL	> 4004	EBLK	REFS	==	6	OSE TALE	00			
	PEAL	ARRAY	EBLK	REFS	==	16	DEF INED	06			
	REAL		GHLK	REFS	15	31	32	95	125	121	
	DFAI	ABBAY	X IES	DEFINED	30	31	35	DEFINED	102	117	
	REAL	ARRAY	GBLK	REFS	15	20.	:	2		:	
	PEAL	ARRAY	HBLK	REFS	13	66					
	INTEGER			REFS	55	28.13	200	2001	66	102	103
				06	91	66	102	103	107	108	112
				114	116						
	INTEGER	ARRAY	IBLK	REFS	14	28	DEF INED	37.		5	;
	INTEGER	ARKAY		HEF S	4 0	72	122	DEFINED	0.0	*	6
	INTEGER		TYPBK	REFS	00	35	!				
	INTEGER		NBLK	REFS	15	106	107	108	DEFINED	7.8	
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11/20/60	411	DEFINED	114	16				127		DEFINED	DEF INED	;	5	;		7 :	16	19	10	03.1.1.00	DEF INED	DEFINED DEFINED	DEP INEU	DEF INED	18	- 6	200	127	151	DEFINED	96			26	114	06			63												
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FTN 4.6+420	103	201	211	68		DEFINED	DEFINED	25	125	40	22	::		ì	0 0	100	6	500	10		200	50	85	95	99	,	? :	121	120	8	8	37		36	103	61			20				70								
	9	10	2	5	88	15	15	91	30	9 ;	91	91	- :		9	9	B :	9	0.	9	0	9	9	18	29	0 0	1	0 -	0 1	81	8	15		28	66	30	20		14				A.	107	:						
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OPT=0 ROUND=*/ TRACE	RELOCATION	NOLK	NALK	NBLK		NBLK	NBLK	PBLK	:	PBLK	PBLK	PBLK	HALK	KHLK	XBLX	XBLK	XBCK	XBLK	ADLA	XBLA	XBLA	XBLK	XBLK	XBLK				× id×	YOLY	XRIK	XAIK	NBLK		WRITES	91	READS	112	REFERENCES	41	œ		92	96	200	6		95	12	91	85	68
74/74	RELC											AHKA																										ARGS	3	DEF LINE	55	12	200	96	26	1 1	57	75	85	86	76
SUBROUTINE PROBRD	SN TYPE	TATEGED	TNTEGED	INTEGER		INTEGER	INTEGER	PEAL		REAL	REAL	HE AL	NE AL	NE AL	HE AL	MEAL	HE AL	MEAL	1 1 2 2	7	NC AL	NE AL	HE AL	REAL	AE AL	7 7 7 7	1 1 1 1 1	DEAL	45.46	PFAI	PFAL	REAL	2007	FHT		FMT		TYPE		9	FMT		T N L	FMT							
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	VARIABLES		• •	~		3	4	•		*	- (•				(01	7 .	• •	n 4	0 1		2:	= :	5011	1101	7011	12	77	-	14	1	STIF NAMES					EXTERA	ERN	STATEN	461	900	256	743	702	511	556	109	624	653	237

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0	•		
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FTN 4	5		APSIG BIGY LFUNC DEFIX CAMMA NOT NOT PI
	4	REFS	-64
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OP1=0 NO	FE F	LENGTH 109 108 108 108	21 AK 21 AK 21 AK 0 AK 0 C BHGX 0 C C C C C C C C C C C C C C C C C C C
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PROBRD	INACTIVE INACTIVE INACTIVE INACTIVE INACTIVE INACTIVE INACTIVE INACTIVE	NDEX	511 2011 100 110 13
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	511 751 1000 1000 1000 1000 1000 1000 10	205 205 205 222 310 325 341	COMMO

	SUBROUTINE CURVE	CURVE	74/14	0PT=0	OPT=0 ROUND=+/ TRACE	TRACE	FTN 4	FTN 4.6+420	11/20/60	13.54.00
	_			SUBROUT	SUBROUTINE CURVE				H51R003	
									H518004	
	8	COMMON		A.AP(1	A.AP(10).Ah(10)	7ABLK A.AP(10), AK(10), AK(10), ASIG(10), AG(10)	0).46(10	•	HS18006	
		NONNOU	/ERLK/		A(10) . GPR	UPR.UELIA(10) E G.GAMMA(10).GPRINT(100.10)			HS18009 HS18009	
-	10	COMMON	/HALK/ /IALK/ /NALK/	1CM (10)	H.NPT.NX.	H(10) ICM(10),ILH,ILD,ISG,INOG NOG,NOH,NPT,NX,NY,NOD,NOSG			H519012 H518013 H518014	
		NOM NOO	COMMON /PRLK/ P.PI.PVMT COMMON /HRLK/ RPD.PZERO COMMON /XRLK/ XK.XLA.XL	P.PI.P RPO.PZ	P.PI.PVMTST(10).PHIE RPO.PZERO XK.XLA.XLB.XLC.XLD.XI	COMMON /PRLK/ P.PI.PVWTST(10).PHIE COMMON /HRLK/ PRD:PZERO COMMON /HRLK/ KK.KLA.KLA.KLC.KLD.XMU.XNA.XNB.XNC.XND	B. XNC. XN	٥	H51R015 H51R016 H51R021	
-	15	GAMMA	GAMMA (INOG) = GAMMA (WRITE (6.10) E. XMU	GAMMA (GAMMA(INOG) = GAMMA(INOG) * DPR WRITE (6.10) E. XMU	ЭРВ			H51R027	
		10 FORMAT (1H1,4X, 3HE =,F] WRITE (6,30) XLA,XLB,XLC 30 FORMAT(1H0,10X, 4HGEAR /	(6.30) x (140.10)	(. 3ME (LA.XLB (. 4HGE	FORMAT (1H1,4X, 3HE =,F10,1,5 WRITE (6,30) XLA,XLB,XLC,XLD FORMAT(1H0,10X, 4HGEAR /	FORMAT (1M1,4x, 3ME = F10,1,5x, 5MXMU =,F6,3) WRITE (6,30) *XA*XLB*XLC*XLO ***********************************	ŝ		H51P029 H51P030 H51P031	
20	•	2 9H WRITE (6.	1H .10x.3HA =.F7. 8H(IN) D =.F7.2) (6.40) XNA.XNB.XNC (1H .10X.4HNA =.F5	(.3HA =	IH .10x,3HA =.F7.2.8H(BH(IN) D =.F7.2) WRITE (6.40) XNA.XNB.XNC.XND FORMAT(IH .10x,4HNA =.F5.1.6X		X, this C	=,F7.2.	HS18032 HS18033 HS18034 HS18035	
N	52	WRITE 50 FORMAT 1 10X*	WPITE (6.50) A.PHIE FORMAT(1HO.10x.25HCO 1 10x. 6HPHIE =:F5.3) WRITE (6.60) H(ILH).	1.PHIE (.26HCO F.F5.3)	NTACT ARE GAMMA(IN	WPITE (6.50) A.PHIE 50 FORWAT(1H0.10x,25HCONTACT AREA OF ONE TIRE =.F9.2.8H(SQ.IN.). 1 10x. 6HPHIE =.F5.3) WRITE (6.60) H(ILH), GAMMA(INGG), DELTA(ILD), PVMTST(INGG) 60 FORMAT (1H0.4x, 3HH =.F8.3.5x, 7HGAMMA =.F8.3.5x, 7HDFLTA =.F8.3.	=.F9.2.8	H(SO.IN.). T(INOG) HOFLTA =: F8.3		
e .	30	1 5x, 34N= ,F 1,3) 00 100 156=1,N056 WAITE (6.70) ASIG(156), AG(1 70 FORMAT (1H0.2x, 74K1GMA =,F 1 34H = F8.3,2X,34K =,F8.1)	5x 34N= (F11.3) DO 100 156=1.NOSG WHITE (6.70) ASIG(ISG), AG FORMAT (1H0.2x, 7KSIGMA =) 3HH = F8.3.2x,34K = F8.1	11.3) 4056 4516(15	G) • AG(IS GMA = • F 8	5x. 3HN= .F11.3) DO 100 15G=1.NOSG MMTE (6.70) ASIG(1SG), AG(1SG), AP(1SG), AH(1SG), AK(1SG) FORMAT (HH0.2x, TKSIGMA =.F 8.3,2x, 3HG =.F 8.1,2x, 3HH =FR.3,2x,3HK =.FR.1).	H(ISG). 8.1.2X.	AK (156) 3HP =F7.1.2X		
m	35	100 CONTINUE GAMMA(IN RETURN END	1 INO6) =	GAMMA	CONTINUE GAMMA(INOG) = GAMMA(INOG) * RPD RETURN END	Qde			HS18047 HS18049 HS18049 HS18050	

CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

31

CONTROL VARIABLE IN COMMON OR EQUIVALENCED. OPTIMIZATION MAY BE INHIBITED.

SYMBOLIC REFERENCE MAP (R=3)

ENTRY POINTS DEF LINE REFERENCES
2 CURVE 1 37

2	% *		
PAGE	51		
13.54.00	DEFINED		8
77/20/60	36	7	0 0
420	28 28	DEFINED	\$2
FTN 4.6.420	255 32 32 32 32 32 32 32 32 32 32 32 32 32	5*32 28 31 36 18 118 118 22 22 22 22	8
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0	0
OPT=0 ROUND=*/ TRACE		8	. 16
OPT=0 ROUN	RELOCATION ABLK ABLK ABLK ABLK ABLK ABLK ABLK ABLK	134 K 134 K 13	WRITES REFERENCES 16 18 22 22 25 25 29 31
74/74	RELO APRAY APRAY APRAY APRAY APRAY APRAY APRAY APRAY APRAY	ARRAY	DEF LINE 17 19 23 26 26 29 33
INE CURVE	SN TYPE REAL REAL REAL REAL REAL REAL REAL INTEGER INTEGER INTEGER	INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER PEAL PEAL PEAL PEAL PEAL PEAL PEAL PEAL	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
SUBROUTINE CUR	0 4 4 Z	14 156 1 NOH 1 NOH 1 NOH 14 NO 14 NO 15 XNO 10 XNO 10 XNO 11	TAPE6 STATEMENT LABELS 76 10 F 74 30 F 114 40 F 113 50 F 147 60 F
			•

	SUBROUTI	SUBROUTINE CURVE	74/74	0PT=0	74/74 OPT=0 ROUND=+/ TRACE	CE	FTN	FTN 4.6+420	09/02/77 13.54.00	00.4	PAGE
L00PS 32	LABEL 100	INDEX ISG	FR0M-T0	LENGT 15	LENGTH PROPERTIES	ES EXT REFS					
COMMON	COMMON BLOCKS	LENGTH	MEMBERS -	BIAS	EMBERS - BIAS NAME (LENGTH)						
	ABLK	51		40	(1)		1 AP		11 AH	(10)	
			.7	AK I	(10)		31 ASIG	(10)	41 AG	(10)	
	09LK	11		O DPR	(1)		1 DELTA				
	EBLK	-		0 E	(1)						
	SHLK	1011		5 0	(1)		1 GAMMA	(10)	11 6941	NT (1000)	
	HBLK	10		10	(10)						
	19LK	14		O ICM	(10)		10 ILH		11 110	11 110 (1)	
			-	2 156	1		3 INOG				
	NBLK	1		90N 0	(1)		1 NOH	65	TON S		
				3 NX	(1)		YN 4		S NOD	3	
				950N 9	(1)						
	PALK	13		0	(1)		1 PI	(1)	Z PVMT	2 PVMTST (10)	
				2 PHIE	(1)						
	AHCK	~		O RPD	(1)		1 HZEHO				
	XBLK	10		XX O	(1)		1 XLA	(1)	2 xLB		
				3 XLC	=======================================		4 XLD		S XHU	0	
				WANA 9	3		7 XNB		8 XNC		
				CAN	(1)						

127

1778

STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH

		0	હ
SUBROUTINE TABINT (x,2,4,nx,nv,TABLE,IND) DIMENSION TABLE(nx,ny),B(3,3) LOCATE MASE POINT VERIFY XY ON TABLE TI= x+10,40.5 TI= x+10,40.5	JE (2) 1 (2) 0 (3) 1 (4) 2 (4) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7) 2 (7)	DO 1 H=1.3 00 1 N=1.3 00 1 N=1.3 00 1 N=1.3 MULTIPLE REGRESSION DETERMINATION OF QUADRIC 11 = 0. 12 = 0. 12 = 0. 11 = 11-8(1,N) +8(3,N) 12 = 11-8(1,N) +8(3,N) 12 = 11-8(1,N) +8(3,N)	C2= T2/6. T1= 0. T2= 0. 00 3 wel,3 T1= T1+8(1,N)+8(3,N) T2= T2+ 8(N+1)+8(N+3) C3= (3*T1-2*T2-6*+8(2,2))/10. C3= (3*T1-2*T2-6*+8(2,2))/40. C4= (8(1,1)-8(3,1)-8(1,3)+8(1,3)+4. Z+Y+(C5+YL+C2)+XL*(C3*XL+C1)+XL*YL*C4+8(2,2) END
υυυ		۰ ۵	n
- N	10	92 SS	90 32 9

5.35 2.34 36 2*28 29 30 DEFINED 2*27 22 0EF INED 0EF INED 39 2 0EF INEO 39 37 REFS 39 REFS REFS RELOCATION ARHAY REFERENCES ENTRY POINTS DEF LINE
4 TABINT 1
1
VARIABLES SN TYPE
26.2 B REAL
255 C2 PEAL
255 C3 REAL

SYMBOLIC REFERENCE MAP (R=3)

4.38

~				10	15		-							37		37																
PAGE				œ	1.		•							36		36																
13.54.00				DEF INED	13		DEF INED		2*35					34	34	35	35															
09/05/17 13.54.00				22	12		25		2.34		7	-	-	58	31	30	32	-		-												
450		38	37	18	1		19	20	82.2	33	DEFINED	DEF INED	DEFINED	27	27	58	88	DEF INEO	18	DEFINED	19											
FTN 4.6+420		DEF INED	DEF INED	13	DEF INED		15	DEF INED	2*27	92	2.10	2•11	22	18	54	61	52	14	DEFINED	16	DEF INED	39										
		39	39	10	17		=	2.52	2.52	2	2	2	2	æ	9	o	7	9	3*39	1	3*39	-						NOT INNER				
OPT=0 ROUND=+/ TRACE		REFS	REFS	REFS	REFS	16	REFS	REFS	RFFS	DEF INED	REFS	REFS	REFS	REFS	DEF INED	REFS	DEF INED	REFS	REFS	REFS	REFS	DEFINED	INCES	21			PROPERTIES		140	OPT	THO	
OPT=0 ROL	RELOCATION				F.P.						F.P.	F.P.	F.P.					F.P.		F.P.		F.P.	REFERENCES		56	33	LENGTH	168	118	138	138	201
74/74	REL												ARHAY										DEF LINE	25	28	35	FROM-TO	20 22	21 22	26 28	33 35	3118
SUBROUTINE TABINT	SN TYPE	u	PEAL	INTEGER	INTEGER		INTEGER	INTEGER	INTEGER		INTEGER	INTEGER	PEAL	PEAL		PEAL		PEAL	PEAL	PEAL	PEAL	REAL	ELS				NDEX		z			110
SUBROU	BLES	**			IND		7	1	z		XX	**	TABLE			12		×	ř		7.	2 1	STATEMENT LABELS		^		LABEL			~	0	STATISTICS PROGRAM LENGTH
	VARIABLES	261	260	247	0		250	253	254		•	0	0	245		545		•	251	•	252	0	STATE	0	•		LOOPS	106	110	132	161	STATI

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| FEAL HFM (20) - DUM (20) |
| DIMENSION TRK (20) |
| DIMENSION CO(49) |
| DIMENSION STRP (10) |
| DIMENSION STR
OVERLAY (LIFE.3.0)
PROGRAM PAVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          35
                                                                                                                                                                                                                                                                                                                                                         2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15
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COMMON /SSEMP2/ XFP(20,10)

COMMON /SSEMP2/ XFP(20,10)

COMMON /SSEMP2/ MYTO-MINGS-IDRY

COMMON /TYP2/ NRIGID.NFLEX

COMMON /TYP2/ NRIGID.NFLEX

COMMON /TYPEX / LMM.LFUNC

COMMON /TRKY / LMM.LFUNC

COMMON /TRKY / IN . I

INFSTRT COMMON /RODLOD/ IDR.LZ.IDF COMMON /SCANJ/ JDL

09

45

20

COMMON /XMBLK/ LIMT
DATA HF/1..2..3..4..5..10..15..20..25..30..40..50..60..70..80..90.
1.100..120..140..150./
1.100..120..140..150./
1.100..120..140..150./
1.100..120..140..150./
1.100..120..140..150./
1.100..120..140..150./
0.100..120..140..13079400087.1.7781512504.22..2.3010299957.3..4..5

9

9

10

DATA A1 /.20..41,.49..56..61,.67..81,.99.1.16/
DATA A2/.19..39..48..55..59..64..75..89.1.03/
DATA A4/.18..39..47..54..576..62..71..82..92/
DATA A6 /.16..38..40..531..56..60..68..78..86/
DATA A6 /.16..38..46..52..55..59..67..76..83 /

DATA A2'.19.39.448.55.599.644.75.899.1.03/
DATA A4'.18.39.44.55.599.64.75.899.1.03/
DATA A6 '.16.38.46.55.55.559.67.168.86/
DATA A1 '.16.38.46.52.55.59.67.76.83 /
DATA A12 '.15.37.45.51.54.58.65.73.78/
DATA A14 '.16.36.44.51.54.58.65.71.75 /
DATA A14 '.14.36.44.50.51.54.58.65.71.75 /
DATA A24 '.13.35.44.50.53.57.64.70.74/
DATA A24 '.13.35.43.50.53.57.64.570.74/

RCOVHI(X)=10.00(X-07)228762)/.3321928095) FORMAT(" PAVE-IRIGDNA " 14) FORMAT(" PAVE-FDE " F10.2)

75

1008 FORMATI" PAVE-IRIGONA " 14)
1009 FORMATI" PAVE-FDE " F10.2)
1010 FORMATI" PAVE-COPPF, FCOMPF, PVTFLX, SLSDBTF, FLSF "SF10.2)
1097 FORMATI" PARTIAL PROTECTION IS THE DESIGN CRITERIA THIS ANSWER WAS BASED ON"

1099 FORMATI" FULL PROTECTION IS THE DESIGN CRITERIA THIS ANSWER WAS BA

80

1099 FORMATI" REDUCED SUNGRADE STRENGTH IS THE DESIGN CRITERIA THIS ANS SED ON"

WER WAS BASED ON" 1101

FORMAT(" PAVE-IRIGONA ".12)
FORMAT(" PAVE-FDE ".10.2)
FORMAT(" PAVE-FDE ".510.2)
FORMAT(" PAVE-ACOST. HCOST. #1G ".3F10.2)
FORMAT(" PAVE-ACOST. HCOST. #1.3F10.5)

8

95

1102 FORMAT(" PAVE-ACUS.
1103 FORMAT(" PAVE-TW.TRK.DI
1717 FORMAT(" PAVE-TW.TRK.DI
1718 FORMAT(" PAVE-TW.TRK.DI
1718 FORMAT(" PAVE-SATE ".F.IO.5)
1921 FORMAT(" PAVE-AXT ".F.IO.5)
1922 FORMAT(" PAVE-BIG "FIO.0.20x."TBIG "FIO.0)
1922 FORMAT(" PAVE-BIG "FIO.0.20x."TBIG "FIO.0)
1925 FORMAT(" PAVE-BIG "FIO.0.20x."TBIG "FIO.0.20x"TBIG.S)
1921 FORMAT(" PAVE-IN.THF.OI ".3FIO.5)
1921 FORMAT(" PAVE-IN.THF.OI ".3FIO.5)
1921 FORMAT(" PAVE-IN.THF.OI ".3FIO.5)

100

1500

105

FORMAT(/2x," PAVE-CHEAPEST STRATEGIES FOR ".2X/)
FORMAT(1H,3x," PAVE-STRESS IS TOO LOW")
FORMAT(2x," PAVE-THICKNESS ",10F6.0)
FORMAT(2x," PAVE-TYPE ",1012) FORMAT(" PAVE-EMBOR ON NUMBER OF WHEELS CARD")
FORMAT(/2x," PAVE-FLEXIBLE DESIGN")
FORMAT(" PAVE-STRESS TOO HIGH")

20

152

9700 FORMAT(1H0+4115) 1BAD=0 1CNT=0 1SAD=0 1SAD=0 1SAD=0	00	17 (1AXK.NE.1) GO TO 430 FAIL2(J.1)=0. CONT.NUC LT=LTT(J) X1=XSTR/(STORE1(J.1))		13 If (RAD NE.1) IGAU=IGAU-1  RR 17E (6.9500)  GO TO 1  CONTINUE  14 CONTINUE	IF (X1.L. 1.3) XX = KCOVL(X1)  IF (X1.6T - 1.3) XX = RCOVL(X1)  FAIL (0.1) = XXX  IF (1AXK.NE.1) GO TO 1  IF (X277) 1 5-3 16-16  IF (X277) 1 5-3 16-16	15 IF (NABUL IN 10 NU = 10 NU	•4	432 WRITE(6.7000) ((FAIL2(J,I),J=1,IMIX),I=1,NOM) 432 CONTINUE NOH=NOH-IRAD+1 IF (IBAD-E0.0) NOH=NOH-1	I (1840-60.0) NOI=1 DF (1840-11-1841-NOH I 1840-11-1840-1 IF (1840-60.0) I 1840-11	HHIII)=HHIIIDBD)  IF(IAXK.NF.1) GO TO 433  AHHIII)=HHHIIDBD)  433 CONTINUE  X=HHIII)	7H:11)=X~~ 50 100 - 100 - 110 HIX FAIL:(J.II)=FAIL:(J.IIBAD)
115	. 150	125	130	135	140	145	150	155	160	165	170

	PROGRAM PAVE 74/74 OPT=0 ROUND=+/ TRACE FTN 4.6+420	09/02/77	13.54.00
590	IF (WHHELS.EQ.16.) 60 TO 21  IF (WHHELS.EQ.18and.af.GT74) A= (AF57)*(29.41176471)  IF (WHHELS.EQ.18and.af.GT74) 60 TO 21  IF (WHHELS.EQ.18.) CALL GINT(COV.A18.AF.ANK.9)  IF (WHHELS.EQ.18.) 60 TO 2:  IF (WHHELS.EQ.24and.af.GT71) A= (AF58)*(38.46153846)  IF (WHHELS.EQ.24and.af.GT71) A= (AF58)*(38.46153846)		
562	IF (#HHELS.EQ.24.) CALL GINT(COV.AZ4.AF.A.KK.9) IF (#HHELS.EQ.24.) GO TO 21 WHITE (6.9122) STOP 3011 22 A=(4.34.44.6.) -652		
300	•		
305	DUM(1) = COVRGD(1,1)  COVRGD(1,1) = COVRGD(2,1)  SO COVRGD(2,1) = DUM(1)  SC CONTINUE  DO 70 J=1.COR		
310	00 200 JJ=1.IMIX 00 200 K=1.20 FAILJJAN = FAIL(JJ.K.J) 200 CONTINUE WRITE(6.3000) COVRGD(1.10)		
315	CALL MIXED(COVRGD.FAIL3.20.4F.THF.THF.IMIX.LS) IF(THFF1).LT-149.) GO TO 419 00 420 I=1.LS 420 THFF(1) = 1.		
320			
325	60 CONTINUE 70 CONTINUE 17 (LZ.NE.3) 60 TO 36 00 351 I = 1.6.S 0UM(I) = COVRGO(1.1)		
330			
335	770 CONTINUE WRITE(6.3000) (THFF(I).I=1.LS) 7 CONTINUE CF=100000000000. CR=100000000000.		
340	If (ID-EQ-1) IREST=ITY+1 LIM = 1 IF (ITY-EQ-2) GO TO 32		

09/02/77 13.54.00											
FTN 4.6-420			MF=1.4).MG=1.NRSTRT)			MF=1,4),MG=1,NFSTRT)					.NRSTRT)
OPT=0 ROUND=+/ TRACE	CCST(1.NX)=SVCOST THK(1.NX)=0. THK(1.NX)=TT	1-1)	CONTINUE IF(INESCA-3) GO TO 400 IF(IREST.EO.3) GO TO 412 WPTE(7) NKSTRT.(RSTRT(MQ).(RTMO(MQ.MF).MF=1.4).MG=1.NRSTRT)	10 402	TETICK.ELS) 60 TO 510  #RITE(7) TCK F(ICK.EQ.1) #RITE(7) TT.TI.SVCOST	IF(ID.ED.3) GO TO 85 IF(IREST.ED.2) GO TO 413 WRITE(7) NFSTRT.(FSTRT(MQ).(FTMO(MQ.MF).MF=1,4),MQ=1.NFSTRT) CONTINUE	IF(ID, E(1, 1) GO TO 403 COST=N YST #W LYST *N B IF(NLYST, FO.0) KCOST=MLYST *NB IF(MLYST, FO.0) KCOST=NLYST *NB	F (NLY)   E4.00   A. (MLYSI.E4.0)   KCUSIEND     J 0.20   KKC = 1.4 KCOSI     F (ICK E0.2)   G0 TO 6.20     F AD (S)   NLYR.NOLYR.NKOM     LYR-NLYR.3	IF (4COM.E.O.) LLYR=NLYR+Z REAO(S) (IX(IIL),IIL=1.NLYR),ICMP.IBASE REAO(S) (OF,(IMT(IIL),IIL=1.LLYR) WRITE(7) ICK IF (ICK.EQ.1) WRITE(7) NLYR.NQLYR.NKOM	IF (ICK.EQ.2) GO TO 302 WRITE(7) (IX(ILL).IIL=1.NLYR).ICMP.IBASE CONTINUE CONTINUE	10 30 60 10 414 NRSTR (MQ), MQ=1,NRSTRT) ((RTMO(MQ,MF),MF=1,44,MG=1,NRSTRT)
74/74	IF(IPEST.NE.3) CCST(1.NX)=S CCST(2.NX)=CDF IF(IPEST.EQ.3) THK(1.NX)=0. IF(IPEST.NE.3) THK(1.NX)=TT NXX=NYP+4.	IIX(1.0x)=0xx DO 31 J=2.0xx THK(J.0x)=TMI(J-1) IIX(J.0x)=IX(J-1)	CONTINUE FILO-EG.3) GO TO 400 CALL XMSTR(XXX.CST.CSF) IF(IREST.EG.3) GO TO 412	CONTINUE CONTINUE CONTINUE IF (IREST.EG.3) GO TO 409		IF (10.60.3) GO TO 85 IF (1REST.60.2) GO TO 413 WRITE (7) NFSTRT. (FSTRT(M	IF (ID. (10.1) GO TO 403 F(IRET. E0.2) GO TO 410 KCOST = MLYST = WLYST = WB IF (MLYST. FO.0) KCOST = MLY IF (MLYST. E0.0) KCOST = MLY	1F ((NLYS) - EU. 0) - A. (MLYS) - 00 302 MKK = 1, MCOST 1F (1CK - EQ. 2) 60 70 620 READ (5) NLYR - NOLYR - NKOM LLYPENLLYH - 3	IF (NCOM.EG.0) READ(S) (IX(II) READ(S) COF.(I	IF (ICK.EQ.2) G WRITE (7) (IX(I WRITE (7) COF.( CONTINUE REWIND 5	.3) 60 .E0.3) 5000) 2000)
PROGRAM PAVE				410	610		401		950	302	
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414 IF(IREST.EQ.2) GO TO 415 WRITE(6.5000) NFSTRT WRITE(6.5000) (FSTRT/HO).MG=1.NFSTRT)		NSSTRT=NRSTRT  D0 93 JJ=1,NRSTRT  D0 93 KK=1,4  STM0(JJ,KK)=RTMO(JJ,KK)  93 CONTINUE		00 95 JJ=INFSTRI  TSTRI(JJ)=FSTRI(JJ)  00 95 KK=1+4  TMO(JJ,KK)=FTMO(JJ,KK)  95 CONTINUE  417 CONTINUE  30 XXO=XXT  IF(ID-EQ-1) GO TO 405  IF(IRFST-FQ-2) GO TO 411  00 300 M=1+ICNI	WRITE(6.7250) (CCST(1.M).1=1.2) NXXIIX(1.M) WRITE(6.8250) (THK(I.M).1=1.NXX) WRITE(6.8250) (IX(I.M).1=1.NXX) 300 CONTINUS 411 CONTINUS 405 IF(10.E0.3) GO TO 406 WRITE(6.7500) IF(1PFST.F0.3) GO TO 4.18	#RITE(6.2000) (SSTRT(I),I=].NSSTRT)  WRITE(6.2000) (SSTRT(I),I=].NSSTRT)  WRITE(6.2000) (STMO(I,J),J=1,4),I=],NSSTRT)  WRITE(6.2000) (TSTRT(I),I=].NTSTRT)  WRITE(6.2000) (TTMO(I,J),J=1,4),I=].NTSTRT)
	575	580	285	265	0 9	610

SYMBOLIC REFERENCE MAP (R=3)

ENTRY POINTS DEF LINE REFERENCES
3 PAVE 2

PAGE 12		259 263		200		592 592	,	•		205																c c		500 483																											
13.54.00	1116	DEFINED	192	167		2.263	513	192	143	166																	9,0	9 6 8 4 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	64 4 64 4 7 8 4	4 4 5 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	6644	482	4 4 4 9 4 4 9 4 4 8 5 5 4 5 5 6 4 5 5 6 6 6 6 6 6 6 6 6 6 6	499 482 514 556	499 482 514 556	4 4 4 8 5 5 4 4 8 5 5 6 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	499 482 514 516 556	499 482 514 516 573	499 482 514 556 573	499 499 514 516 526 241	499 482 514 514 556 573 273	499 482 514 556 573 241 241 239	499 482 514 556 556 573 273	499 482 514 556 273 273 273	4,99 4,82 5,14 5,56 5,64 5,73 5,73 5,73 5,73 5,73 5,73 5,73 5,73	499 482 482 514 524 241 239 385	499 482 514 514 556 573 273 273	499 482 482 514 573 573 573 539 385	499 482 482 514 524 524 539 385 385	499 482 482 514 556 556 556 573 241 241 239 385 352	499 482 482 514 556 541 241 239 385 385	499 482 482 514 514 524 239 239 355 0EFINED	499 482 482 514 556 556 239 239 385 385	499 482 482 514 536 556 539 352 0EFINED
11/20/60	27.3	300	683	483		261	212	202	643	DEF INED			441		200	200	500	500 65 70	500 70 17	500 55 70 71	55 55 57 57 57 57 57 57 57 57 57 57 57 5	500 2017 2017 2017 2017	00 00 17 13 13 13 13	000 27 17 100 100 100 100 100 100 100 100 100	0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	565 772 773 773 773 773 773 773 773 773 773	500 65 77 77 77 77 77 77 78 88 88 88 88 88 88	500 567 771 771 772 773 774 775 775 775 775 775 775 775 775 775	500 57 77 77 77 77 77 78 66 78 66 78 68 78 68 78 78 78 78 78 78 78 78 78 78 78 78 78	500 65 71 71 71 71 71 71 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 71 71 72 66 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 72 73 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 72 73 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 71 72 73 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 72 73 66 68 68 68 68 68 68 68 78 59 59 59 59 59 59 59 59 59 59 59 59 59	500 65 71 71 72 73 66 66 68 68 68 68 513 513 513 513 513	500 65 71 71 71 71 71 71 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 71 71 71 71 68 68 68 68 78 51 39 58 58 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 71 71 71 71 71 71 71 71 71 71 71	500 65 71 71 72 73 68 68 68 68 69 69 73 73 73 73 74 73 73 74 74 75 76 76 76 76 76 76 76 76 76 76 76 76 76	500 65 71 71 71 71 71 71 68 68 68 68 68 68 78 78 78 78 78 78 78 78 78 78 78 78 78	500 65 71 71 72 73 68 68 68 68 68 78 58 58 58 58 58 58 58 58 58 58 58 58 58	500 65 71 71 72 73 68 68 68 68 68 69 73 73 39 39 39 39 51 63 53 53 53 53 53 53 53 53 53 53 53 53 53	500 65 71 71 71 71 71 71 71 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 72 71 73 68 68 68 68 68 78 58 58 58 58 58 58 58 58 58 58 58 58 58	500 65 71 71 72 73 68 68 68 68 68 69 73 74 70 70 70 70 70 70 70 70 70 70 70 70 70	500 65 71 71 72 73 64 64 64 64 63 63 63 63 63 63 63 63 63 63 63 63 63	500 65 71 71 71 71 71 71 68 68 68 78 51 39 51 51 51 51 51 51 51 51 51 51 51 51 51	500 65 71 71 72 73 68 68 68 68 68 69 73 74 73 74 73 74 73 74	500 65 71 71 72 73 68 68 68 68 69 63 89 39 513 99 578 53 53 578 53 53 53 53 53 53 53 53 53 53 54 54 56 56 56 56 56 56 56 56 56 56 56 56 56	500 65 71 71 72 73 68 68 68 68 68 68 68 68 68 68 68 68 68	500 65 71 71 71 71 71 71 63 63 63 63 63 63 63 63 74 833 831 330	500 65 71 71 72 73 74 68 68 68 68 68 68 68 68 68 68 68 68 68
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CALL GINT (THFF . TM . XXT . TZZ . LX . 20)
                                                                                                                                                                                                                                                                                                                            IF (NCOM.GT.0) NSBB=NCOM+NOBB-1
                                                                                                                                                                                                                                                                                      IY([+1) = INT (YCBR([,4)+.])
WRITE (6,1000) IY([+1),1
                                                                                                                                                                                                                                                                                                                                             IF (NKOM.EO.0) NCOM=0
IF (JMAN.EO.2) GO TO 101
IF (MSHH.EO.0) GO TO 81
IF (MORH.EO.0) GO TO 81
                                                                                                                                                                                                                  IF (IRTE.EO.4) FOEF=FDE
XCO=10000000000.
NORH=NSAB
                                                                                                                                                                                                                                                                                                                                  IF (NCOM.EQ.0) NSBB=NQBB
                                                                                                                                                                                                                                                             TDHY=T270.8
IF (NNAT.E0.0) GO TO 1
                                                                                                                                                                                                                                                                          DO 2 [=1.NNAT
                                                                                                                                                                                                                                                                                                                JUNN-JUNN+1
                                                                                                                                                                                                            1Y(1)=1UBC
                                                                                                                                                                                                                                     NKOM=NCOM
                                                                                                                                                                                                                                                                                                          CONTINUE
                                                                                                                                                                                                                                                                                                                      NSBB=0
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*/ TRACE	2)) NOLYREI	60 T0 102 IF((JMAN.E0.2).AND.(JJMN.EQ.MLYST+1)) G0 T0 4 NOLYR=NYOO(JJMN) D0 103 JJKM=1.NOLYR IX(JJKM) CONTINUE	UNITALE  F((JMAN-EQ.1).A.(NOLYR.EQ.0)) MLYST=JJMN-1  F((JMAN-EQ.1).A.(NOLYR.EQ.0)) GO TO 4  IQCMP=0  IQCMP=1  IQCMP-1  F(NCOM-EQ.0)  F(TOROM-EQ.0)  F(TOROM-EQ.0)  F(TOROM-EQ.0)  F(TOROM-EQ.0)  F(TOROM-EQ.0)  F(TOROM-EQ.0)	CALL "SCERINKOM NCLYR.  CALL "SCERINKOM NCLYR.  IF (INKOM.NE.0) .A. (NCLYR.EQ.0)) GO TO 605  NLYR=NCLYR.NOLYR-1  IF (NOME.EQ.0) NLYR=NCLYR-1  NIYN=NCLYR.  NRYY=NCLYR.		(1.4	0)) NLYR=0
74 OPT=0 ROUND=+/ TRACE	CALL GXMT(NOBB,NOLYR)  IF (NORH-EG.0).A.(JJMN.EG.1)) NOLYR=1  IF (NORH-EG.0).A.(JJMN.EG.2)) NOLYR=0  MPASS=MPASS-1  IF (MPSS-SG.1) LPASS=2  IF (MPSS-SG.1) LPASS=2  NOTE (6.100) NORB.NOLYR  DO 100 KL=1.NQLYR  IX KL)=KX KL)  IX KCL)=KX KL)  CONTINIE	10 10 10 10 10 10 10 10 10 10 10 10 10 1	UNITUDE   F ( ( JMAN-EQ.1) .A. (NOLYR-EQ   IC ( JMAN-EQ.1) .A. (NOLYR-EQ   ICCMP=0   ICCMP=1   ICCMP-1   ICCMP-1   ICCMP-1   ICCMP-1   ICCMP-1   ICCMP-1	LEL SZCHEN NROWNELYRY FF (NROW-NE.0).A. (NCLYR.ED IF (NROW-NE.0).A. (NCLYR.ED IF (NAOR-EQ.0).A. (NCLYR.ED IF (NORR-EQ.0) NLYR-NCLYR-I IF (NORR-EQ.0) NLYR-NCLYR-I NKLYR-NCLYR-I	NL=ML-1 IF (ML-6T.NKLYR) GO TO 601 NX (ML) = MX (NL) 60 TO 600 GO TO 600 CONTINUE ICMP=MX (1)	00 602 ML=1.NLYR IX(ML)=NX(ML) WRITE(64.100) ML.IX(ML) CONTINUE IF(NCOM.E0.0) 60 TO 83 YMT(NNAT:1)=ZCBR(ICMP.1) IT(NNAT:2)=INT(ZCBR(ICMP.4)+1) MOTETE(4.100) TY(NNAT:2).NNAT	CONTINUE    ( ( NKOM - E 0.0 ) A. ( NDBB - E 0.0 ) NLYR=NOLYR   ( ( NKOM - E 0.0 ) A. ( NDBB - E 0.0 ) NLYR=NOLYR   ( NKOM - E 0.0 ) NKLY=NOLYR   ( NKOM - E 0.0 ) NKLY=NOLYR   ( NKOM - E 0.0 ) NKLY=NOLYR   ( NKOM - E 0.0 ) NKLYP=0   ( NK
A 74/74				IF (INCOM-NE.0) -A-CI IF (INCOM-NE.0) -A-CI IF (INCOM-NE.0) -A-CI IF (INCOM-NE.0) -A-CI IF (INCOM-NE.0) -A-CI IF (INCOM-NE.0) -NLYR NKLYR-NCLYR-I			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SUBPOUTINE LYR	16 6	101	603		601	905	6
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SUBROUTINE LYR	LYR	74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6+420	09/02/17	13.54.00	PAGE	
311	409	IY(II+1)=INT(ZCBR(JJ+4)+1) WRITE(4+100) IY(II+1)+II GO TO 70 YMT(II)=XMT(JJ+1)					
120	0.48	TOTAL THE TOTAL T					
152		IF (ZMT(IMAS:1):GE-50.) IBASE=3 IF (ZMT(IMAS:1):GT-70.) IBASE=2 IF (ZMT(IMAS:1):GT-90.) IBASE=1 LL=NNAT-2-NLYR IF (NCOM:60.0) LL=LL-1 SMT(IA.) -ZMT(IAS.)					
130		Y					
135	r 00	IF (IY(IYC) .Eq.3).0R.(IY(IYSC).EQ.4))60 TO 8 CONTINUE IXXC=IYSC WPITE(A.1000) (YMT(KL).KL=1.LL) WPITE(A.1000) (YMX).KL=1.L)					
140		DENSEQUED  10H=1UBC  10ENS=0  10FNS=0  10FNS=0					
145	5 2 2 5	If (DENS-DN) 73.74.74 IDENS-DN) 73.74.74 CONTINUE CONTINUE IDENS-A-IDENS					
150		DENT= DENT= DENS=    IF (IDENT=EQ.6) DENS=    IF (IDENT=EQ.0) DENT=    WPITE (6.2700)					
155		TX:=177  IF(LZ:E0.3) 60 TO 9  CALL TLMC(LM+.LFUNC.IOH.IDENS.IDENT.DENS.TVV)  60 TO 10					
160	2 2	CONTINUE  IF (ITY*-LI*IXX) GG TO 72  IXX=IYY  IDRY=0.  CONTINUE					
165	!	IXXC=  XXC-    DO 6					
170		IF (KK.E0.0) GO TO 85 GO TO 86					

SUBA	SUBROUTINE LYR	74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6.420	09/02/77 13.54.00	13.54.00	PAGE
	85	158=2				
		IF (XCHR.LE.79.9) ISR=1 GO TO S2				
175	86	CONTINUE				
		IF (I.EQ.KK) GO TO 20				
	20	IF (XXP-79.9) 22.22.23				
	22	ISR=1				
180	;	60 10 21				
	23	CONTINE				
	;	IF (1.67.KK) GO TO 52				
		IF (xxx-49.9) 24,24,25				
185	25	XXR=50.				
	54	COMTINUE				
	25	CONTINUE				
		CALL HINTORY XXX XXX XXX XXX XXX XXX XXX XXX XXX X				
190		WRITE (6.2000) TX.FOE.FDEF				
		IF ((IXXC.EG.1).A. (FOEF.GT.TX)) TX=FDEF				
		WRITE(6.2000) TX.FDE.FDEF				
30.		WHITE (6.1000) IXXC				
5		INTERPRETATION TO SE				
		TELL TANATI GO TO 238				
		IF (NCOM. FO. 0) 60 TO 343				
		DENS=2CAR (ICMP.2)				
200		IOH=INT (2CBR (ICMP, 4) +.1)				
		60 10 351				
	343	IF (NSPB.E0.0) 60 TO 30				
		DENS=XMT([X(]).2)				
		UXM1=1				
502		10H=INT(XMT([x(]),41])				
	000	100 00 00				
	338	10H=1N1(<000(1+1-4)				
	151	CONTINUE				
210		THH=YCBR(1.3)				
;		10ENS=0				
		00 71 J=1.5				
		PN=1055.*FLOAT(J)				
	:	IF (DENS-DN) 27.29.29				
515	53	IDEAS=IDEAS+1				
	12	CONTINUE				
	:	105 1 105 105 105 105 105 105 105 105 10				
		IDENT=10ENS-1				
220		IF (10ENS.E0.6) 10ENS=5				
		IF (IDFNT.FO.0) IDFNT=1				
		1F (1.27.FD. 3) GO TO 1)				
		CALL TLMC (LMH. LFUNC, IOH, IDENS, IDENT, DENS, TLIM)	IM)			
552		60 TO 12				
	121	CALL RODDENS (IDF. DENS. IOH. TLIM)				
		IF (TLIM-TX) 30.31.31				

SUBROUTINE LYR	LYR	74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6-420	09/05/77 13.54.00	13.54.00	PAGE
230	30	TX=TLIM CONTINUE IF(1.61-1) 60 TO 32				
		TAX=TXX GO TO 37				
235	32	TAX=0PTH(I-1) F(TAX-THH) 33,34,34				
	* ;	(50 TO 35				
240	3	TXX=TX+THH TXX=TX+THH				
	36	TF09=TX+THH-TAX				
		NT=1-1 DO 39 J=1-KK DOTH(!)=DDTH(!)-TFOR				
545	39	CONTINUE				
	35	CONTINUE DPTH(I)=Tx				
	1	60 10 6				
000	92	IF (KK.EQ.0) GO TO 40				
		KK=NNAT+NLYH+1 IF (NCOM-EQ.0) KK=KK-1				
265		IF (1.61.KK) GO TO 40				
G		IF (NCOM.EQ.0) KK=KK-1				
		JXMT=0 IF(I.65T*KK) G0 T0 42				
***		NCST(I)=7+ICMP				
092		IF (NSHH, ED, 0) GO TO 45 DENS=XMT (IX(1), 2)				
		IOH=INT(X4T(IX(1).4)1) IF(NKOM-LE.1) LXET#1				
245		IF (MKOM-GT-1) DENS=ZCBR (IX(1),2)				
	ç					
	7	CONTINUE  KK-IX(I) - I-NNAI)  KK-IX(I) - I-NNAI)				
270		NCST(T) =NKOM+7+KK				
		DENGEMMI (KK.2)				
		IF (KK. GF. NKLYR) UNMTHIN				
613		IF (KK.LI.NKLYH) DENSEZER (KK.+) +.1)				
	;	IF ((1) MT.F. (1) 64 (XRR.GE.20.)) GO TO 45				
280		10ENS=0 10 43 J=1.5				
		DN=1055.*FLOAT(J) IF(DENS-UN) 43.44.44				
285	4.2	1DENS=1DENS+1 CONTINUE				

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FTN 4.6.420	ENS. 7LIM)			S£1)	į	£ 2			TO BOTTOM. UBBASE IF CLIMATE IS DRY LAYER IS INCREASED BY " NTS, THE LAYER BELOW IS SCHEME.
74/74 OPT=0 ROUND=#/ TRACE	DENS=6-IDENS   19ENT=10ENS-1   F (19ENS.EQ.6)   IDENS=5   IF (1DENT.EQ.0)   IDENT=1   IF (LZ.EQ.3) 60 TO 13   IF (LZ.EQ.CM+LFUNC.IOH.IDENS.IDENT.DENS.TLIM)   60 TO 14	CALL RODDENS(IDF,DENS,IOM,TLIM) CONTINUE TETTLIM-TX) 45.46.46 CONTINUE CONTINUE	CON 17-10E NCST (1) =NCOM+NSBB+7+1B4S PFP0=5 FF (LZ.NE.3) GO TO 15 KLASS=FFUNC	IF (IBASE.EO.1) CBRL=100. IF (IBASE.EO.2) CBRL=80. IF (IBASE.EO.3) CBRL=50. CALL MTHICK (IDF.CBRL.THIKENS.KLASS.BASET) II MA=BASET	TEBORS TELMETHIKENS GO TO 16 CONTINUE FAIL THM (MH.) FINC. TRACE TER. TRACETIN	TLMB=TLIM IPR0=1 CONTINUE CONTINUE IF TLIM-LT-TX) TLIM=TX	IF 11.NE.1) GO TO 88 TMLH=TXX GO TO 87 TMLH=EDPTH(I-1) IF (ILIM+ILM9-TMLR) 48.48.47 IF (I.EQ.1) GO TO 53 OPTH(I-1)=TLIM+ILM8 GO TO 48	TXX=TLIM-TLMB TX=TLIM TX=TLIM CONTINII= WRITE(6.2000) (UPTH(KL).KL=1.LL) WRITE(6.2000) TXX	ASSIGNING LAYER THICKNESSES FROM TOP TO BOTTOM. "TDRY" IS SUBTRACTED FROM LOWEST SUBBASE IF CLIMATE IS DRY. IF A SUBBASE OR COMPACTED SUBGRADE LAYER IS INCREASED BY "DIFF" DUE TO MINIMUM THICKNESS REQUIREMENTS, THE LAYER BELOW IS DECREASED BY "DIFF." THE FINAL "CDF" IS THE COST OF THE SCHEME.
	10EN3=6- 10EN1=10E 1F (10ENS, 1F (10ENS, 1F (12,E0, CALL TLM	13 CALL RODDE 14 CONTINUE 15 (TLIM-TX 46 TX=TLIM 45 CONTINUE 60 TO		IF (IBASE E IF (IBASE E IF (IBASE E CALL MIHICY	IPBD=1 TLIM=THIKENS GO TO 16 CONTINUE	TLM9=TLIM 1P80=1 CALL TLMM 16 CONTINUE 15 TLIM-L	15 (1-NE-) 17 (1-NE-) 18 (10 A) 18 (10 A) 18 (1 (1-EQ-) 19 (10 A)	m m	"TD" IF DUE
SUBROUTINE LYR			0,						000000000
	240	565	300	305	310	315	325	330	340

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S	SUBROUTINE LYR	74/74 OPT=0 ROUND=+/ TRACE FTN 4.6+420	09/02/77 13.54.00	13.54.00	PAGE
004	υc	ROTTOM LAYER, IF SUBBASE OR COMPACTED SUBGRADE			
	, <b>6</b> 5	TMT(1)=TX-DPTH(J)-DIFF IF((NCOM.EG.0).A.(IDRY.EG.2)) TMT(1)=TMT(1)-TDRY			
505		TM(1)=AIN(TMT(1)*.74) IF (TMT(1)*LT*6*) TMT(1)=6*			
		TTT=TMT(1) CALL *TTT*CDF2)			
410	99	CDF LOF ACOP Z CONTINUE CONTINUE			
		_			
415		IF(NCOM.EG.0)			
		WRITE(S) NLYR.NOLYR.NKOH WRITE(S) (IX(IIL), III=1,NXLY), ICMP.18AS			
450		WAITE (5) CUT (			
		WATER (5,1000) (IX(M),M=1,NXLY)			
		MA=NY YR.3 IF (NCOM.EQ.0) MA=MA-1			
455		WAITE (5.2000) (TMT(M).M=1.MA) IF (XCD-COF) 60.61.61			
	61	xCD=CDF			
		IF (NCOM.EQ.0) KK=KK-1			
430		00 52 1=1,KK XTMT(1)=TMT(1)			
		IF (1.61.NLYR) GO TO 62			
	29	CONTINUE			
633		IXBS#1845 IXCMP#1CMP			
	0.50	IXSG=158			
	S	CONTINUE			
044	£	1F (MCUM_ED.0) GO TO 605			
	909	CONTINUE IF COOM FOLDS NIXSTED			
		60 10 1			
577	4	CONTINUE KK = NXL Y + 3			
		IF (NCOM.EO.0) KK=KK-1			
		TMT(I)=XTMT(I)			
450		IF(1.60.LL) 60 TO 66			
		LL=NXLY+2 IF((1.E0.LL).AND.(NCOM.GT.0)) GO TO 65			
554					

•									419	397		283	261		282	330						25.25
PAGE									415	380		226	202	391	213	326				193		113
13.54.00								700	717	-		554	503	397	144	255			193	20102		195
11/20/60								306	409	DEF INED	397	214	166	345	DEFINED	248			190	140		110 192 238
450								300	397	194	396	159	140	DEF INED	283	544			153	5.154		2*46 183 234
FTN 4.6.420						11,	309	OFF TAFF	380	457	380	157	DEF INED	405	214	DEF INED			34	153		2045 176 231
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74/74	IX (1) = IXT (1) 60 TO 63 IX (1) = IXBS 60 TO 63 IX (1) = IXCMP 60 TO 63 IX (1) = IXSM CONTINUE NLYR=NXLY NLYR=NXLY	WAITE (6.3000) WAITE (6.1000) REWIND 5 NS03=NQBB NCOM=NKOM RETURN END	MAP (R=3)	REFERENCES 472	REL			ARRAY							24004			ARRAY			ARRAY	
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13.54.00	17546	347	456		130	317			528		.63	121	211		588	287	308			118	05.5.5.50	DEL INCO	291	292	310	78	172			203	919	9					167	120	119		362	DEFINED	DEFINED		\$
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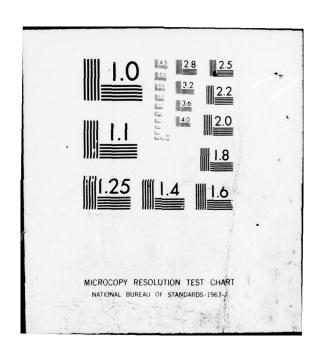
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	(1) (1) (2) (2) (3) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		4	4 4 -	4.5	2*5	9 ~ 1	12	==	12	- 4 (	N -	n (	12	15	14	11
OPT=0 ROUND=+/ TRACE	SUBROUTINE HINT(TX,XXV,XXR,LX,LY,XCV,LS)  DIMENSION XCV(20)  COMMON /565#P2/ XFP (20.10)  COMMON /565#P2/ XFP (20.10)  SLX = (XFP (LX,LY-1)-XFP (LX-1,LY-1))/(XCV (LX)-XCV (LX-1))  SLX = (XFP (LX,LY-1,LY)-XFP (LX-1,LY-1))/(XCV (LX)-XCV (LX-1))  SLY = (XFP (LX,LY-1,LY)-XFP (LX-1,LY-1))/(XCV (LX)-XCV (LX-1))  SLY = (XFP (LX-1,LY-1)-XFP (LX-1,LY-1))/(XCV (LX)-XCV (LX-1))  XY = XFP (LX-1,LY-1)-SLX1*(XXV-XCV (LX-1))  XY = XFP (LX-1,LY-1)-SLX1*(XXV-XCV (LX-1))  ZY = XFP (LX-1,LY-1)-SLX1*(XXV-XCV (LX-1))  ZY = XFP (LX-1,LY-1)-SLX1*(XXV-XCV (LX-1))  ZY = XFP (LX-1,LY-1)-XCV (LX-1))		8 E E	REFS REFS DEFINED	REFS 14	2*14	200	REFS	200	25.5	REFS	DEF INED	REFS	REFS	REFS	REFS	REFS
0PT=0 RO	SUBBOUTINE HINT(TX,XXV,XXR,LX DIMENSION XCV(20) COMMON / SGS,MP2/ XFP (20,10) COMMON / SGS,MP2/ XFP (20,10) COMMON / SGS,MP2/ XFP (20,10) SCLXI= (XFP (LX,LY) - XFP (LX,-1,LY) SCLXI= (XFP (LX,LY) - XFP (LX,-1,LY) SCLXI= (XFP (LX,-1,Y) - XFP (LX,-1,LY) SCLY = (XFP (LX,-1,Y) - XFP (LX,-1,Y) SCLY = (XFP (LX,-1,Y) - XFP (LX,-1,Y)	EN CER S	B RELOCATION WES	F.P.	F.P.	r.P.				c u	. S.	à.	SGSWP2	. a			
74/74	SUBMOUTINE HINT(T DIMENSION XCV(20) COMMON / SGS #P2 / X COMMON / SGS #P2 / X SC X = (XFP(LX-LY) -	TX=(Z1+Z2)/2. RETURN ENO  CE MAP (R=3)  NE REFERENCES	18 REI	ARRAY ARRAY *UNUSED							ARRAY	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ARRAY				
SUBROUTINE HINT		TX=(Z1+ZZ)/Z RETURN ENO ENO SYMBOLIC REFERENCE MAP (R=3) OINTS DEF LINE REFER	SN TYPE	PEAL PEAL INTEGER	INTEGER	INTEGER	PEAL	PEAL	1436	PEAL	PEAL	HE B.	PEAL DEAL	PEAL	PEAL	PEAL	PEAL
SUBROUT	1 8 9 1	STHBOLI	VARIABLES 310 AESWL	ESML	ž	, د	5LX1	56.7	SLY2	55LY	WHEELS	2		× × ×	× 2	22	75
			VARIAB	* 0 0	•	e :	142	151	147	150	322		0 0	00	152	154	155

AD-A064 698 CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 13/2 SYSTEMS APPROACH TO LIFE-CYCLE DESIGN OF PAVEMENTS. VOLUME III .-- ETC(U) JAN 79 E S LINDOW CFRL-TR-M-253-VOI -3 UNCLASSIFIED NL 30F AD AOB4698



PAGE 09/02/77 13.54.00 SUBROUTINE GXMT (NSBB.NLYR)
DIMENSION IPDINT (20), IMAX (20), IROM (20), XMTK (20)
COMMON /LYTD/ NNAT.YCBR(10.4),NCOM.ZCBR(10.6),NSQG.XMT(10.6)
COMMON /KFYVAL/ IX(20)
COMMON /FXSBK/ NPASS
INTEGER ORG
DATA NPASS/I/ IF (IPOINT (LPTR) .EQ. IMAX (LPTR)) GO TO SO IPOINT (LPTR) + 1 GO TO NSWTH. (41.45) LPTR = LPTR-1 ASSIGN 45 TO NSWTH 1F (LPTR - 1.00 TO NSWTH 1F (LPTR - 51.0) GO TO 62 IF (NLYR-I +IPOINT(I )-NSBB) 32,62,62 DO 35 J = I , NLYR IPOINT (J) = IPOINT (J) + 1 ORG = I 00 S I = 046. NLYR
KK = IPOINT (I)
IF (OTEMP .EQ. XMTK (KK)) GO TO 30
OTEMP = XMTK (KK)
RETURN 74/74 OPT=0 ROUND=+/ TRACE C NSBB = TOTAL NUMBER OF LAYERS
C IX = ARRAY OF NETURN POSIBILITIES
C NLYR = NUMBER OF VALUES IN IX
C = 0 IF SCHEMES ARE EXHAUSTED
C 60 TO (134-135-62) • NPASS [POINT (1) = 1 LPTR = 1 ASSIGN 41 TO NSWTH TRANSFER VALUES IMAX (1) - NSBB C INCREMENT LEVELS C A2 IF (IPOINT (LP 086 = 1 0TEMP = 0 C JUMP ROUTINE
C JUMP ROUTINE
30 IF (NLYR-I
32 00 35 J =
35 IPOINT (J) NLYR = 1 NPASS=3 60 10 10 SUBROUTINE GXMT 135 0 9 2 15 52 30 20 35

60 65 6 680 65 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	RESET LOWER LEVELS  KK = LPTR +1  DO 47 J = KK*NLYR  1001NT (J) = 1901NT (J-1) + 1  LPTR = NLYR  GO TO 41  END OF BOUTINE  NLYR = 0  RETURN  SORT ROUTINE USED ONLY ON FIRST PASS	JINT (J-1) • 1  VLY ON FIRST PA	s s			
	KK = LPTR +1 D0 47 J = KK+NL 1POINT (J) = 1PC LPTR = NLYR G0 T0 41 ND OF POUTINE NLYR = 0 PETURN SORT ROUTINE USED OF	JINT (J-1) • 1 JINT (J-1) • 1 VLY ON FIRST PA	\$\$			
	IPOINT (J) = IPO LPTR = NLYR GO TO 41 :ND OF POUTINE NLYR = 0 RETURN SORT ROUTINE USED OF	JINT (J-1) • 1  VLY ON FIRST PA	S S S			
	IND OF POUTINE  NLYP = 0  RETURN SORT ROUTINE USED OF	NLY ON FIRST PA	S S S			
	IND OF POUTINE  NLYP = 0  RETURN SORT ROUTINE USED ON	NLY ON FIRST PA	s s			
	NLYR = 0 RETURN SORT ROUTINE USED ON	NLY ON FIRST PA	45S			
	RETURN SORT ROUTINE USED ON	ULY ON FIRST PA	\$58			
	SORT ROUTINE USED ON	ALY ON FIRST PA	455			
134						
		.10				
	XMTK(J) = XMT(J.1)					
25	1404(3) = 3					
4	IF (14 .EQ. 1) GO TO 135	10 135				
	15w11 = 0					
80	[ = ] [F(I .F(). N) 60	10 1				
	IF (XMTK(I) .LE. XMTK(I+1)) GO TO 2	XMTK(1+1)) 60	10 2			
	TEMP = XMTK(1)					
	XMTK(I) = XMTK(I	2				
98	ITMP = IROW(I)					
	IRO4(1) = IRO4(1+1)	[+1)				
	IRO4(I+1) = ITMP	•				
•	1 = 11 = 1					
06	1 0 1 0 9 C					
-	IF (ISWIT .EQ. 0) GO TO 135	0 GO TO 135				
	40108					
	CNU					

80 38 36 2*35 30 2*83 REFS 82 REFERENCES RELOCATION SYMBOLIC RFFERENCE MAP (R=3) ENTRY POINTS DEF LINE SN TYPE INTEGER VARTABLES 263 I

AN IF STATEMENT MAY BE MORE EFFICIENT THAN A 2 OR 3 BRANCH COMPUTED GO TO STATEMENT.

CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

1802

•			29	96					9				53	00																														
PAGE			4	25			2015		72		65		25			92						:	6																					
13.54.00		55	644	DEFINED			2474		DEF INED	09	42	?	15.		18	73			38			6	70																					
11/20/60		19	37	96	88		2062	73	4	87	OFF TNFO	2	6,	-	1	55		14	54	62		.040	10.3																					
•450		DEFINED	35	88	78	85	30	65.3	30	94	52	7.	36	DEF INED	DEFINED	15		23	DEF INED	52	82	9	2 4	:																				
FTN 4.6-420		£ 5	72	30.	DEF INED	DEFINED	DEF INED	53	2	5000	9 6	3	35	63	14	35		DEFINED	26	DEF INED	DEFINED	26	9 6	3											79									
		92 ~	~ !	5 2	16	87	20.37	36	88	5.43	16	-	56	9	n (n	19	<b>~</b> (	າ <b>ທ</b>	9	88	94	m (	7	<u> </u>	m										26				48		16		EXITS	
OPT=0 ROUND=4/ TRACE		DEFINED REFS	REFS	REFS	87 REFS	REFS	NETS OFFIS	DEFINED	REFS	REFS	DEF INED	25.5	REFS	55	REFS	REFS	DEF INED	MERS	REFS	REFS	REFS	REFS	NEET S	REFS	REFS	ENCES									45				2*35		11	PROPERTIES	140	INSTACK
OPT=0 ROL	RELOCATION						KEYVAL					1 710	4		PASSBK	F.P.		LYTO				LYTO		LYTD	LYTO		90	100	6	26	36	73	35	36	53	45	107	23	7.	51	1.1	LENGTH	168	28
74/74	REI	ARRAY	ARRAY	ARRAY			ARHAY															ARRAY	AKKAY	ARHAY	ARHAY	DEF LINE	91	2	11	30	92	75	رد عر		23	09	2 44	8	43	89	15	FROM-TO	26 30	
NE GXMT	SN TYPE	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INIEGER	INTEGER	INTEGER	1115650	TATEGER	INTEGER		INTEGER	INTEGER		INTEGER	INTEGER	REAL	REAL	PEAL	REAL	REAL	REAL	s							TNACTIVE									TADEX	1	7
SUBROUTINE GX		IMAX	IPOINT	I PON	15417	ITMP	×.	,	¥	LPTR		NO CA	NLYR		APAN	NS88		NSOO	086	OTEMP	TEMP	TMX	XMIK	YCAR	2C8R	STATEMENT LABELS	-	~	n 4	·	10	=:	30	35	1,	2,1	190	20	24	99	135	LARFL		35
	VARIABLES	316	272	342	267	175	0 40	602	564	260	344	500	,0		•			341	257	262	270	147	366	•	25	STATEM	253	247	206	0	17	0;	-		7	152	0 [2]	171	110	167	27.	1 00Ps	51	-

PAGE			
09/02/77 13.54.00		41 NCOM (1) 103 XMT (60)	
FTN 4.6+420		1 YCBR (40) 102 NSOO (1)	
74/74 OPT=0 ROUND=*/ TRACE	FROM-TO LENGTH PROPERTIES 53 55 78 INSTACK 61 62 58 INSTACK 73 75 109 OPT	MEMBERS - BIAS NAME (LENGTH) 0 NNAT (1) 42 ZCBR (60) 0 IX (20) 0 NASS (1)	4228 274 2708 184
SUBROUTINE GXMT	×	COMMON PLOCKS LENGTH 163 KEYVAL 20 PASSBK 1	STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH

45 KK = LPTR +1	47 J = KK.NLYR 47 IPOINT (J) = IPOINT (J-1) + 1 LPTR = NLYR 60 T0 41	C END OF ROUTINE C 64 NLYR = 0 RETURN	C SORT ROUTINE USED ONLY ON FIRST PASS C 134 DO 11 J = 1.4NSBB	11	3 [F(I .E(). N) GO TO ]  IF(xwirk(I) .LE. xwirk(I+1)) GO TO 2  TEMP = xwirk(I)  Xwirk(I) = xwirk(I + 1)  Xwirk(I+1) = TEMP		1 IF (ISWIT .EQ. 0) 60 TO 135
	(7-1) • 1		ON FIRST PASS	135	1 (1+1)) GO TO 2		TO 135

6 8 AN IF STATEMENT MAY BE MORE EFFICIENT THAN A 2 OR 3 BRANCH COMPUTED GO TO STATEMENT. 37 35 2•34 84 88 29 83 78 26 26 25 25 REFS 81 DEFINED REFERENCES RELOCATION SYMBOLIC REFERENCE MAP (R=3) DEF LINE SN TYPE INTEGER ENTRY POINTS

CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

5.80

٣	19	98		65	52					
PAGE	3	72	2.0.0	% 6	15.8	27	:	ž		
13.54.00	400	DEFINED	2•73	DEF INED 59 75	50 16	72	76 .	i		
11/20/60	18	85	87	72 60 47 62 0EF INED	8 7	17	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
•420	DEF INED	6 4 8 6 4	77 84 29 29 29	65 5 1 6 6 5 1 6 6	35 OEF INEO	DEF INED	22 DEFINED 24 81	83 6		
FTN 4.6-420	2,92	98	DEFINED DEFINED DEFINED 2+53	2, 28 2, 28 2, 4, 4 4, 5, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	34	13	OEFINED 25 DEFINED DEFINED	73	ç,	
	~~;	<b>4</b> ~	90 86 2*4 2*36	35 27 2*42 15 15	653	. v 8	4.28	ntuu	20 4 9 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	EX11S
OPT=0 ROUND=+/ TRACE	REFS	REFS	REFS REFS REFS REFS	DEFINED REFS REFS DEFINED REFS	REFS	REFS REFS		DEFINED REFS REFS	NCES 44 46 46 2034 75	PROPERTIES OPT INSTACK INSTACK INSTACK OPT
OPT=0 ROL	RELOCATION		CEYVAL		Ly 70	PASSCK F.P.		LYTO	VE REFERENCES 79 80 80 80 80 80 80 80 80 80 80 80 80 80	LENGTH 168 58 78 58 58 108
74/74	REI ARRAY ARRAY	ARRAY	ARRAY				S	ARRAY ARRAY	DEF LINE 90 88 88 88 76 76 76 77 76 76 76 76 76 76 76 76 76	FPOM-10 25 29 35 34 52 54 50 61
INE GZCBR	SN TYPE INTEGER INTEGER	INTEGER	INTEGER INTEGER INTEGER INTEGER	INTEGER INTEGER INTEGER	INTEGER	INTEGER	INTEGER INTEGER REAL REAL	REAL REAL	INACTIVE	I NOEx
SUBROUTINE	VARIABLES 315 IMAX 272 IPOINT	IROW	ISWIT ITMP IX IX	Z LAK	NC00	NPASS NS98	NSWTH OPG OTEMP	7C88	ENT LABELS 3 4 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LABEL 5 35 52 47 11
	315 272	345	261	260	ទី	•••	261 262 270 270	25	253 1 265 2 206 4 4 1 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	L00PS 51 77 141 156 173

2000	41 NC00 (1)		
2	Ž		
0016661 11100160	3		
2			
074.0.4 NI	1 YCBR (40)		
Z .	1 YCBR		
74/74 OPT=0 ROUND=#/ TRACE	MEMSERS - BIAS NAME (LENGTH) 0 NNAT (1) 42 708R (60)	(20)	
1PT=0 R0	NAT NAM	IX	274 123
74/74	MEMSERS - 8	,00	422B 173B
SUBROUTINE GZCBR	COMMON BLOCKS LENGTH	20	STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH
SUBROUT	9LOCKS LYTD	CETVAL	RAM LENGT
	COMMON		STATIS PROG CH L

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PAGE
09/02/77 13.54.00
                                                                                                                                                                                                                                                                                                                                                                                          DATA (TCOMC(3.13) 1=1.4) /100.22.115.100./

DATA (TCOMC(3.13) 1=1.4) /4.3.5.3.100./

DATA (TCOMC(3.13) 1=1.4) /6.5.6.5.3.3.100./

DATA (TCOMC(3.14) 1=1.4) /6.5.6.3.3.3.100./

DATA (TCOMC(3.14) 1=1.4) /6.5.6.3.4.3.100./

DATA (TCOMC(1.15) 1=1.4) /6.5.6.3.5.100./

DATA (TCOMC(1.15) 1=1.4) /6.5.6.3.3.3.5.100./

DATA (TYPRS(1.1) 1=1.5) /1.5.3.3.3.3.5.100./

DATA (TYPRS(1.1) 1=1.5) /2.5.5.3.3.3.5.100./

DATA (TYPRS(1.1) 1=1.5) /2.5.5.3.3.3.5.100./

DATA (TYPRS(1.1) 1=1.5) /2.5.5.3.3.4.5.5.7.5.100./

DATA (TYPRC(2.1) 1=1.5) /3.5.5.3.44.5.5.7.5.100./

DATA (TYPRC(3.1) 1=1.5) /3.5.5.3.44.5.5.7.6.100./

DATA (TYPRC(3.1) 1=1.5) /1.5.3.44.5.5.7./

DATA (TYPRC(3.1) 1=1.5) /1.5.3.44.5.5.7./

DATA (TYPRC(3.1) 1=1.5) /1.5.3.44.5.5.7./

DATA (TYPRC(3.1) 1=1.5) /1.5.3.44.5.5.7./
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14.TLU.TLU.,S(14).3(55.1)
14.TLU.TLU.,S(14).3(55.1)
THE INFORMATION USED BY SUBROUTINE TLMC IS TAKEN FROM
AIRFIELD FLEXIBLE PAVEMENTS-AIRFORCE, TM 5-824-2 (DEPARTMENT OF
THE ARMY, 7 FEBRUARY 1969), CHAPTER 2, TABLE I.
IF (IA.GT.3) GO TO 1
IF (IA.GT.3) GO TO 1
IF (IC.COMP.(1A.1B.1E)
GO TO 5
TLU-TCOMP (IA.1B.1E)
TLU-TCOMP (IA.1B.1E)
GO TO 5
TLU-TCOMP (IA.1B.1E)
GO TO 5
FTN 4.6+420
                                           OPT=0 HOUND=+/ TRACE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IF (IC.EO.>>OR.IC.EO.4)60 TO 3
TLU=TYPHS(IA.ID)
TL=TYPHS(IA.IE)
60 TO 5
   74/74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1000
   SUBROUTINE TLMC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          000
                                                                                                                                                                                    10
                                                                                                                                                                                                                                                              15
                                                                                                                                                                                                                                                                                                                                       20
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2					53	\$	280	13.	0, 0,	35	
PAGE					23	2 - 5	96 19 72	<b>*</b> 21	5 9	5 %	
13.54.00				-12	SO DEFINED	DEFINED	62 18 26	113	DEF INED	33	
11/20/60				DEFINED 70	6 9 9	58	57 DEFINED 25	DEFINED 10	2.10	DEF INED	
450				0,1	649	62 43	. 26	24 6 7 :	8 \$	29	
FTN 4.6.420				OEF INED	067 INEU 59 59	5.24	50 50 50 50	E 9 8 2 5	6 8	58	
	i i			24 1	0 1 8 9	2 4 5 9 7	5-05	8275	26.50	£ ~ ~	*
OPT=0 ROUND=*/ TRACE	TLU=TYPHC(IA.ID) TLL=TYPRC(IA.IE) TLL=TYPRC(IA.IE) TC(TLU-90.) 6.4.4 WRITE(R.IN00) IA.IB.IC.ID.IE.A.TLU.TLL STOP 30.5 CONTINUE TF(TLL-90.) 7.8.8 WRITE(8.1000) IA.IB.IC.ID.IE.A.TLU.TLL STOP 30.5 ST			REFS	25 S S S S S S S S S S S S S S S S S S S	DEFINED REFS REFS DEFINED	REFS DEFINED REFS 21	8673 873 841 841 841	5. 35 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	REFS REFS	95
0PT=0 ROUN	TLU=TYPHC(IA.ID) TLL=TYPRC(IA.IE) CONTINUE IF(TLU-90.) 6.4.4 IF(TLU-90.) 6.4.4 STOR 30.5 CONTINUE IF(TLC-90.) 7.8.8 IF(TLC-90.) 7.8.8 IF(TLC-90.) 7.8.8 STOR 30.5 CONTINUE CONTINUE CONTINUE B=TLU-(IA-DSL)/5.)*(TLU-TLL) R=R*12* RETURN END		NCES	RELOCATION F.P.	å å	44	å. L				WRITES
74/74	TLU=TYPHC(IA.ID) TLL=TYPRC(IA.IE) CONTINUE IF(TLU-90.) 6.4.4 IF(TLU-90.) 6.4.4 STOP 30.5 CONTINUE IF(TLL-90.) 7.8.8 IF(TL-90.) 7.8.8	MAP (R=3)	REFERENCES 72	REL			ARRAY	ARRAY		ARHAY	
SUBROUTINE TLMC	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	SN TYPE REAL REAL	INTEGER	INTEGER	INTEGER	REAL	PEAL	PEAL	MODE
SUBROUT	9 <b>9</b> 2	SYMBOLIC	ENTRY POINTS		18 18	22	1E 1004C	1COMP	ž 2	TYPBC	TAPES
	• • •		ENTRY	VARIABLES 0 A 0 B			204	220 100	215	1026	FILE NAMES TAPES

	SUBROUTINE TLMM	TLMM	MM 74/74 OPT=0 ROUND=*/ TRACE FTN 4.6+420	09/02/77 13.54.00	13.54.00	PAGE
	-		SUBROUTINE TLMM(IA.IB.IC.IE.ID.B) DIWENSION PMT1(3.6),PMT2(3.6),8MT(3) DATA BMT /1099			
	vs.		DATA (PMTI(1,1),1=1.6) /100.33.3.100.33.2./  DATA (PMTI(2,1),1=1.6) /4.33.3.100.33.2./  DATA (PMTI(3,1),1=1.6) /5.4.4.3.33.3.2./  DATA (PMTZ(1,1),1=1.6) /5.4.4.3.3.100.4.2./			
	10	8000	Lundi			
	15	~	IF (ID. EQ. 2) GO TO 1 IF (IC. EQ. 2) GO TO 2 ILIMEDMIL(IA. IB) GO TO 5 ILIMEDMIZ(IA. IB)			
N	50	-	ILIM=6. IF(IA.GT.3) GO TO 5 IF(IA.LT.3) GO TO 5 IF(IR.GT.3) GO TO 5 IF(IR.GT.3) GO TO 5			
N	\$2	•	IF (IEEC.2) 60 TO 5 IL   M=AMT(IB) 60 TO 5 IF (IEEC.2) 60 TO 5			
М	30	v • •	-04300			
<b>F</b> )	35	c	B=TLIM RETURN END			

ENTRY POINTS	DEF LINE	REFERENCES 36						
VARIABLES	SN TYPE	RELOCATION						
8 0	PEAL	F.P.	DEFINED	-	35			
163 RMT	REAL	ARHAY	REFS	2	56	62	DEFINED	3
0 IA	INTEGER	F.P.	REFS	16	18	12	22	DEF INED
0 19	INTEGER	. F.P.	REFS	16	18	23	56	62
			DEF INED	-				
0 10	THTEGER	F.P.	REFS	15	54	DEF INED	-	
0 10	INTEGER	F.P.	REFS	14	DEF INED	-		
0 16	INTEGER	F.P.	REFS	52	28	DEF INED	-	
117 PMT1	REAL	ARRAY	REFS	2	16	DEF INED	3	2

SYMBOLIC REFERENCE MAP (R=3)

PAGE 2	92		
	900		8
09/02/77 13.54.00	<b>8</b> 8		23
17/20/60	16.7		52
1450	DEFINED DEFINED		23
FTN 4.6+420	18 35		. 2
	31		12
74/74 OPT=0 ROUND=+/ TRACE	REFS REFS 29	35	NCES 19
OPT=0 ROU	RELOCATION	WRITES	E REFERENCES 14 15 24 17 31 24-31 32
74/74	RELO		DEF LINE 20 18 28 30 34 10
E TLMM	SN TYPE REAL REAL	MODE	S INACTIVE
SUBROUTINE TLMM	VARIABLES SN 141 PHT2 116 TLIM	FILE NAMES TAPES	STATEMENT LABELS 31 1 53 2 53 2 54 5 76 8 0 9 101 1000 FM

		<pre>\$TRT(1) = xxT IF (xXT.LT.1.) STRT(1) = 1.</pre>	
0		IF(NSTRT.E0.0) NSTRT=1 IF(NSTRT.E0.1) GO TO 12 LBADO 20 1-1. NSTRT	
9		IF(1,E0.1) 60 TO 20 IF(19T(1), 6T.STRT(1)+1.) 60 TO 20	
92	02	LRADSLBAD*1 CONTINUE IF(LBAD.ED.0) GO TO 12 MSTRT=NSTRT-LBAD DO 21 [=5.MSTRT	
٦	12 21	STRT(1) = STRT(1+LRAD) CONTINUE CONTINUE CAL COMSEQ(STRT, NSTRT, CSMN, CFMN) IF (1PFST, EQ. 3) 60 10 50	
0	20	NST971=NXSTRT(1) WRITE(64.3000) (XSTRT(1,1),1=1,NSTRT1) WRITE(64.2000) (XSTRT(1,1),K=1,4),I=1,NSTRT1) WRITE(64.2000) (SMN CONTINUE IF(IFKT,F0,2) GO TO S1	
\$6	ű	NSTRIP=NSTRIC) WRITE(4.5000) (XSTRIC2.1).1=1.NSTRT2) WRITE(6.4000) (XTM0(2.1.K).K=1.4).1=1.NSTRT2) WRITE(6.2000) CFMN	
06	. s	IF (LST-CSMN) 40-5-5  IF (CST-CSMN) 40-5-5  CST-CSMN MPS FFT = NX TRT (1)  DO A = 1=1-NX TRT (1)  PS FR (1) = X TRT (1) 1)	
Ş	8 0 6 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	DO 8 K=1.4 RTWO(I.K)=XTMO(1.1.K) CONTINUE CONTINUE TO IT IREST.E0.2) GO TO 1 IF ICSF-CFMN) 1.42.42	
001	4	CSF=CFMN NFSTRT=NXSTRT(2) 00 43 I=*******************	
105	£-	FTMO(1.K) = XTMO(2.1.K) CONTINUE CONTINUE IF(IREST.E0.2) GO TO 53 WRITE(6.1000) (FSTRT)	
110	5 %	##   FIRESTEGO   CONTROLL   CONTROLL   FIRESTEGO   CONTROLL   FIRESTEGO   CONTROLL   CONTROL   C	

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9										,	40	***	47	112			•	000				*	99																	29	
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13.54.00						66		68			140	101	70	109				DEF TAFT	חבי ושכם			DEF INED	DEFINED						DEF INED		DEFINED	*			20		100		1,	26	
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OPT=0 ROL			ENCES	RELOCATION		F.P.		F.P.	PLSVK	RLSVK					RESTR	DORK	POSTR	RESIX		SCAN3	RESTR					SZBK	* 1074	SZBK	FLSVK	HDSTR	RLSVK					ROSTR	FLSVK	PLSVK	46340		
74/74		ENCE MAP (R=3)	. REFERENCES	AE				ADDAY	ABRAY	ARRAY																				ARRAY							YARRA.	ARIAN	74004		
INE XMSTR	ENO	REFERENCE .	DEF LINE	SN TYPE	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	INTEGER				INTEGER	INTEGER	INTEGER	TATEGER	INICOCK	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TATEGER	TATEGER	INTEGER	INTEGER	INTEGER	INIEGEN	TNTEGER	INTEGER	INTEGER	INTEGER	INTEGER	PEAL	76.40	1	
SUBROUTINE XMS	s	SYMBOLIC REFERI	ENTRY POINTS		NAN	CSF	CSMN		FSTRT		_				ICOUNT	01	ZAZ	14531	,	700	JRESTO	×	LAAD	ĭ	2	2	2 2	EXTO	NFSTRT	N00	NASTRI	2	NSTRTI	NSTRTZ	NUMO	NUMS	NXSTRT	LATER	1010		
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OPT=0 ROUND=*/ TRACE

SUBROUTINE XMSTR

09/02/77 13.54.00							
FTN 4.6+420							.3), 60 TO 2
EQ 74/74 OPT=0 ROUND=4/ TRACE	CONTINUE  NAX=6-NSTRT  IX=1  OO 1 I=1.6  IM (I) = 7  IM (I) = 7  IF (.PRST.GT.1) IA(I) = JREST-1  IF (.DRST.GT.1) .OR.(IE.NBX)) IB(I) = IA(I)  IA1 = IA(I)		163=1813 17P(3)=13 14A=1A(4) 100 2 14=144.184 17P(4)=14	185=14(5) DO 2 15=145,185 1TP(5)=15 1A6=1A(6) 1P6=1R(A) DO 2 16=1A6,186 1TP(6)=15		TMO(1.4)=XK  IF ((ITY-E0.2).AND.(IAXK.EQ.1)) TMO(1.4)=AXK  IF ((ITY-E0.2).AND.(IAXK.NE.1)) GO TO 2  TMO(2.4)=TMO(1.4)  TMO(1.1,4)=TMO(1.4)	00 TO 9 IF (10.E0.1.AND.ITP(J).E0.2) IDI=IDF IF (ID.E0.2.AND.ITP(J).E0.2) IDI=IDF IF (II.6T.1) GO TO 11 TMO(1.4)=XK IF ((ITV.E0.2).AND.((IAXK.E0.1)) TMO(1.4)=AXK IF ((ITV.E0.2).AND.((IAXK.NE.1)).AND.(JREST.NE.3)) GO TO IF ((IAXK.E0.1).AND.(JREST.NE.3)) GO TO 2
CONS	30					9	• =
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SUBROUTINE CONSED	INE CON	74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6+420	11/20/60	09/02/77 13.54.00	PAGE
115	•	IF(1,EQ.1) 60 TO 200 IF(1,6T.2) 60 TO 34 IF(ITY,EQ.2) 60 TO 8 IF(ITP(J-1),EQ.1) 60 TO 8				
120	35	IF (ITP(J).EG.2) GO TO 8  IN=2 CONTINUE  KEITP(J-2) IF (KK.EG.2) GO TO 8				
125		KK=[TP(J-1) IF(KK_C0.1) GO TO 8 KK=NBX+NSTHT NO PO L=J+KK IF(ITP(1), F(0,1) 1x=2				
130	200	CONTINUE CONTINUE IF ((1.NE.NSTRT).OR.(1.NE.1)) GO TO 8 TMO(1.4) = XK KK=IIP(1)				
351	<b>6</b> 0	IF((ITY.EO.2).AND.(KK.EO.1).AND.(IAXK.EO.1)) TMO(1.4).AXK IF((ITY.EO.2).AND.(KK.EO.1).AND.(IAXK.NE.1)) GO TO 2 CONTINUE IF(IX.FO.2) GO TO 36 GO TO 37	HO(1.4) = AKK 0 TO 2			
140	36	X = 1 WPITE (6,5000) CONTINUE KBN=INU JRN=IN				
5+1	13	IF (NSTRT.EQ.0) GO TO 14 [F([RN.EQ.4) GO TO 13 GO TO 14 JAN=2				
150	1 1	DO 46 1=JRN.KBN 1F(NSTRT.EQ.0) GO TO 51 DO 15 J=1.NSTRT TMO(4.3) =FLOAT(I)				
155	z 2	CONTINUE WRITE (6.2000) (STRT(LM),LM=1,NSTRT) WRITE (6.2000) ((TMO(LM,LN),LN=1,4),LM=1,NSTRT) CALL OVINK(TMO,STRT,NSTRT,101) CALL MOAC(TMO,STRT,NSTRT,COM) CALL USMC(TMO,STRT,NSTRT,COM)				
150		MRITE (5,2700) (STRICLM).LMB1.NSTRT) MRITE (5,2700) ((TMO(LM.LN).LNB1.4).LMB1.NSTRT) MRITE (5,3700) COM.CTU CSMECOM+CTU CSMECOM+CTU IF (ITV.ED0.2) GO TO 100				
165	2	CSN=CSM NXSTRT(1)=NSTRT DO 17 L=1.NSTRT SXTRT(1L)=STRT(L) DO 17 L=1.NSTRT				
170	. 11	XTWO (1.L.M)=TMO (L.M)				

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PAGE						134		162			:	30	2.131	62	:	•			*	3		
13.54.00						113		DEFINED	165	174	8 4	2	116	52		761			o a	3		
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025						101	162	173	DEFINED	DEF INED	DEF INED	<b>C</b> :	113	149	3.5	135	9 2 %	25	67	,	143 68 72	76 80
FTN 4.6+420						36	161	165	183	184	20	<b>y</b> :	109	95	29	134	DEFINED OFFINED	DEF INED	OEF INED	65	142 DEFINED DEFINED	OEF INED
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OPT=0 ROUND=+/ TRACE						REFS	REFS	REFS	REFS	REFS	REFS	REFS	KEFS 99	DEFINED RFFS	87	113	REFS S	REFS	REFS	DEF INED	REFS REFS	REFS
74/74 OPT=0 ROUN	1F(CSM-CSP) 102,40,40 CSP=CSM NxSTHT(2)=NSTRT D0 104 L=1,NSTRT XSTRT(2,L)=STRT(L) XTRT(2,L)=STRT(L)			4=3)	REFERENCES 1AS	RELOCATION LCY	:	0			FMBLK	DOBK		<b>&gt;</b>	300				>		AMBLK	
74,	GO TO 40 IF (CSM-CSP) CSP-CSM NXSTHT(2) =NS NXSTRT(2-L) =S NO 104 L=1+N	CONTINUE CONTINUE CONTINUE CSMN=CSN	END	MAP										ARRAY					ABBAY			
INE CONSEO	101 100 102 102 102 103 103 103 103 103 103 103 103 103 103	404 S	E RE RE LE	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	SN TYPE	PEAL	PEAL	PEAL	REAL	PEAL	PEAL	INTEGER	INTEGER	TMTEGED		INTEGER	TNTEGER	INTEGER		INTEGER	INTEGER
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	27.1	180	185		ENTRY POINTS	VAPTABLES 0 AXI	1212	1214	1147	1150		~ ~ !	1157	1216	•		1163	1111	1177		1161	1157
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13.54.00	701	98 133 86 111 128	107 152 114 135 2*179	DEF INED 160 178 59	92 155 175
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FTN 4.6.420	DEFINED DEFINED 32 DEFINED 32 41 41 107 DEFINED 96 53	41 944 122 149 449 163 067 INED 067 INED 067 INED 067 INED	96 124 151 151 2*64 DEFINED 125 125 124 2*168 167 40	155 160 20179 45 45 93	35 150 160 53
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OPT=0 KOUND=*/ TRACE		MEFS 167 167 167 167 167 167 167 167 167 167	REFS DEFINED REFS REFS REFS REFS REFS OFFINED REFS REFS REFS REFS REFS REFS REFS REFS		REFS 131 158 DEFINED REFS
0PT=0 KOU	CNT COUNT COUNT HESTR DOBK RODLOD RODLOD FMBLK ROSTR BESTR	DOBK	RESTR XMBLK	RODLOD SZRA AMBLK SZRK NGLK NBLK NBLK NBLK	F.P.
74/74	ARRAY	ARRAY			
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13.54.00		151	156 100 134	110	140				68	151				
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OPT=) ROUN	RELOCATION NBLK Y FLSVK NBLK	F.P.	à	NHLK FLSVK FLSVK	WRITES 159	REFERENCES 157 156 158	DEF LINE		0 7 1 8	92 99 99 99 99 99 99 99 99 99 99 99 99 9	144	157 643	137 137 149	150 163 2*164 173 176
74/74	REL(	ARRAY	ARHAY	PRH PA		ARGS 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ARGS 1 INTRIN 1 INTRIN	DEF LINE	192	136			18584E	
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TINE CONSEG	ELS FEET FEET FEET	INDEX	• ננוד	LMIT		=:		71.	• 15	91 •	•	٠,٠	• ¬			3.				ĮĮ	LENGTH	~		- 3		102	107	-	œ		•	u <b>m</b>			-			PROGRAM LENGTH	TOTAL PROPERTY.
SUBROUTIN	STATEMENT LABELS 471 200 1044 1000 FP 1051 3000 FP 1055 4000 FP	LABEL		33	-	~ ~	٠,	. ~	. ~	~	α .	02	15				:		104	104		AMBLK	CAT	000K		FLSVK	KAYBK	۲,	YBLK		900	RESTR	PODLOD	SZHK	118K	XHALK	52775	SPAM LEN	
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SUBROUTINE OVTHK	OVTHK	74/74	OPT≈0 R	OPT=0 ROUND=+/ TRACE	TRACE		FTN 4.6.420	0.450	09/05/77 13.54.00	13.54.00	PAGE	
9			C=1.5 C=.5 C=.35 .NE.1)	= =								
25	2	01F=14L/C 1FT0TH=0MTR) 13.11.11 0TH=0MTR 7H=7H=C 7H=7H=C	3.11.11									
2	2	THE THE CONTROL CALLS  THE THE CONTROL CALLS  THE (ICOND. EQ. 2) C = .75  THE (ICOND. EQ. 2) C = .75	0=1. 0=1.5 0=1.5									
£ &	92	F   LCOND.CLAST   C=1.   F   LCOND.CLAST   C=1.   OTH=SORI ((HO**2)-((C*THL)**2)    F   OTH=ONTR   16:11:11   THL=THL**CT   CTHL**2)	2) - ((C) 6-11-11	C=1.	â							
č.	6	THE = IML/C CON INUE 15YS=1 YAM=IMO(1,4) F=1.	00 00	, 00								
06	100	CALL FF (YAK. LFUNC. 14.F) CONTINUE IF (ICOND. EC.) C=1. IF (ICOND. EC.) C=7. IF (ICOND. EC.) C=7. IF (ICOND. EC.) C=7.F	C=1.									
56		IF (ICOND.FO.4.A.I.EO.1.A.ID.EO.1)  IF (ICOND.EO.4.A.I.EO.1.A.ID.EO.1)  IF (ICOND.EO.4.A.I.EO.1.A.ID.EO.1)  IF (ICOND.EO.4.A.I.EO.1.A.ID.EO.1)	A I EO	4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	.60.1) J	JCOND=2 0TH=99. G0 T0 41						
100	62 14	101H=0MTF HO=(.440TH+C+THL)/F CONTINUE IF(LZ.EQ.3)60 TO 50 IRASE=1	THL) /F									
105	;	ISB=2 1P80=1 CALL TLMM(LMH,LFUNC,18ASE,1SB,IPBQ,TLIM) IF(OFH-4,1-TLIM) 11,11,23	LFUNC.	18ASE , 1	SB.IP80.	1(14)						
110	3	TLFT=TN-TL CALL GINT(THFF,TM,TLFT,AP,KK,20) THO=AP-TTHS BP=0. IF(NNAT,EQ.0) GO TO 42	F.TM.TL G0 T0	FT.AP.K	K,20)							

2 2 2 8 8 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			
2 2 2 8 8 3 2 4 6 6 8 8 9 3 3 4 5 6 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	115		00 40 JJ=1.NNAT
1 128			RP=HP+YC8R(JJ+3)
1 128 8 50 45 5 1 1188 24 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		07	CONTINE
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			THO=THO=HP
1 128		6.3	
7 5 5 8 8 8 3 7 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	1
2 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	60	57	0141110
27 88 50 8 50 433 13 13 13 13 13 13 13 13 13 13 13 13 1			1575=2
2 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			MTF
25 24 8 594 11 128 25 24 1		33	01H=0M?F
23 24 8 50		34	
3 32 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25	20	KLASS=LFUNC
2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			CHR = 100.
8 22 24 8 11 11 11 11 11 11 11 11 11 11 11 11 1			CALL MINICKET CROL THIRENCE A ACCEDENT
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FTN 4.6+420	134	741	24		2			EXT REFS NOT INNER  1 IBN (1)  20 TRAA (20)  1 ITY (1)
	57	145	154		2•18			REFS P
OPT=0 ROUND=+/ TRACE	28	: · · ·	REFERENCES 51 40 37	CES	71 2•151	129	5 2 699	Y I
OPT=0 ROUN	WRITES	REFERENCES 89 80 50 127 136 RY 77	DEF LINE IN IN	α	2 • 6 6 141 56	78 78 99 99 1108	131 20137 20137 151 122 115 116 116 116 118 118	LENGTH PROPERT 5638   INSTACE
74/74		ARGS R 4 5 3 1 LIBRARY 6	ARGS INTRIN 1 INTRIN 1 INTRIN 1	DEF LINE 157 37 38 42 43			1VE 138 1VE 139 1VE 152 102 102 103 105 105 105 105 105 105 105 105 105 105	91 157 115 117 MEMBERS
SUBROUTINE OVTHK	FMT	TYPE	NS TYPE REAL REAL INTEGER	S	INACTIVE	INACTIVE INACTIVE INACTIVE	INACTIVE INACTIVE INACTIVE FMT	INDEX 1 JJ LENGTH 40
SUBROUT	FILE NAMES TAPE6	EXTERNALS FF GINT WITHICK RD0 RD0 SORT TLMM	INLINE FUNCTIONS AINT FLOAT INT	STATEMENT LABELS 0 1 41 2 45 3 54 4 57 5	574 11 574 11 215 14	273 19 273 19 421 23	54.0 25 54.1 27 60.28 60.33 60.33 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34 60.34	COMMON SLOCKS AMBLK RMBLK CONT CONT CONT CONT CONT CONT CONT

SUBROUT	SUBROUTINE OVTHK	74/74	0PT=0 F	74/74 OPT=0 ROUND=#/ TRACE	4 NT4	FTN 4.6.420	09/02/77 13.54.00	13.54.0	0	PAGE
COMMON BLOCKS	LENGTH	MEMBERS	- BIAS N	S - BIAS NAME (LENGTH)						
FCON			O IFCON	=						
FLAG	-		ONODO O	ê			101	THE	(100)	
FMBLK	201		OHO O	3	YII I		02	I	100	
HALK			H	(10)	10 1	(02)	2	2 1 70	::	
TABLK	3		O FACCO	3	I PACNO		,			
			3 IA	3						
KAVRK			O IAXK	(1)			•	020	1007	
-	24.		O AXK	(1)	1 YKO	E	,	2	1021	
123			22 FACO	(1)	23 LS	3			:	
4	174		TANN	3	1 YCBR	(07)	17	41 NCOM	(1)	
7110			42 7CHH	(09)	102 NSBB	3	103	T W T	(09)	
			A3 NA		164 ZMT	(15)				
	•		OMTE	::	1 OMTR	3				
2.0			NO60	::	HON	(1)	2	2 NPTO	ĉ	
NBCK	•		O X V	: 3	DAN 7	3	5	NODO	ê	
			6 NOS60	::	7 XK	3				
BUSTB	•		NAMIO	î.						
SESTE			O IREST	(1)	1 JRESTO	3		1000	33	
800L00	9		901 0	3	1 12	ê	•	יייי ביייי		
SCAN3	-		O JOL	3		;				
SZBK	~		0 MXTO	=	MAN	2				
THANK	07		O THEF	(50)	20 TRKK	(50)				
TYPBK	2		O LMH	3	1 LFUNC	Ē				
STATISTICS PROGRAM LENGT	674			2						
CM LASELED	CH LARELED COMMON LENGTH	H 10568	58 558	80						

	SUBROUTINE	EXCOST3	74/74	0PT=0	OPT=0 ROUND=*/ TRACE	Y TRA		FTN 4.6.420		11/20/60	13.54.00	PAGE	
	-	SURBC	SUBPOUTINE EXCOST3 (BSTK.TPAV) DIMENSION SAVER(50.2) COMMON THRL/ IND.SWID.TWOCL, JACK COMMON THRL/ IND.SWID.STORTED ETL	COST3 ER (50.2	(BSTK.TP	AV)	SUBPOUTINE EXCOST3 (BSTK-TPAV) DIMENSION SAVER(50.2) COMMON TMPL/ IND.SAID.THOCL.JACK COMMON TYPE/THOSE SECTIONS OF STREET BEDFF. CLIEDER MEDTH	1					
	•	COMMO	ON /ZONES	ZONSTE	P (9) 4	6) QIA	COMMON /ZONES/ZONSTEP(9),APWID(9),APRSTR(9,3),APREND(9,3),NAPR.APT	APREND	(9.3) .NAPR.AP	_			
	9		IF (NERTH-EQ.0) GO TO 2  IF (NERTH-ET-SO) GO TO 2  OO SO IK=1,NERTH 3	00 60 1 801 60 1	10 2								
		55 ERCOST=SA 60 T0 2 60 T0 99 60 T0 99 7 CUT=CUTCS	10 (405) 534VEK(IN.1) = 1100) 10 (60 10 2 ERCOST = 54VEK(IK.2) (60 10 99 CUT = CUTCST = 61 LL = FILCST = 6.0	IK.2)	ST=0.0		IT (#55)SAVER(IN.) 60 TO 2 ERCOST=SAVER(IK.2) 60 TO 99 CUT=CUTCST=FILL=FILCST=0.0						
			1=0 REWIND 2 B=A PEAD(2) A										
~	90	15(15) 15(15) 1=1+1 A=A-S)	IFL=EOF(2) IF(IFL.NE.0)GO TO 10 I=I+1 A=A-SWIO+THCK/36 FF(I.FO.1)GO TO 1	60 TO 10	•								
2	52	VOL-0-5 VOL-0-5 IF (VOL-0-5 GO TO 1	VOL=0.5*(A*B)*PSTEP/3 IF(VOL.6T.0.0)FILL=FILL*VOL IF(VOL.LT.0.0)CUT=CUT*VOL 60 T0 1	PSTEP	73 71LL+VOL 77+VOL								
e e	30		CUTCST=CUT+CUTPRCE FILCST=FILL+FILPRCE ERCOST=CUTCST+FILCST+APTOT PRETH=NESTH+11	TPRCE TLPRCE +FILCS	I+APT0T								
	38	SAVER (NEI 99 CONTINUE RETURN END	SAVER (NERTH+2) = ERCOST CONTINUE RETURN	E R CO	<u>.</u>								

		DEF INED							DEFINED
		52					18	-	30
		23			32		OEF INED	DEF INED	62
		18	S	S	S	S	52	1	27
		REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS
REFERENCES 37	RELOCATION		ZONES	ZONES	ZONES	ZONES		F.P.	
REFERE 37	REI		ARRAY	ARRAY		ARHAY			
DEF LINE	-	PEAL	REAL	REAL	PEAL	PEAL	PEAL	REAL	REAL
ENTRY POINTS	VARIABLES	4	APPEND	APRSTR	APTOT	APWID	60	BSTK	CUT
ENTRY	VARIABL	160	55	22	111	=======================================	157	0	152

SYMBOLIC REFERENCE MAP (R=3)

2		35			
PAGE		35 7			
13.54.00	28 % %	33 34 0EF INED			2 TWOCL (1) 2 PSTEP (1) 5 NEXTH (1) 5 APFOTT (2)
09/02/17	30 31 31 31 30 30 30 30 30 30 30 30 30 30 30 30 30	10 DEFINED 34 25			2 2 1 1 8 5 7 3 1 3 4 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1 5 7 3 1
450	15 0EF INED 15 0EF INED 0EF INED 20 20	9 13 23 1 0EF INEO			
FTN 4.6.420	DEFINED 30 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31	8 25 11 23 11 DEF INED			SWID (1) ERCOST (1) CUTPRE (1) APWID (9) NAPR (1)
	22.22.4.4.32	, , , , , , , , , , , , , , , , , , ,	Ĭ	12 12	4 6 2
D=+/ TRACE	######################################	DEFINED REFS REFS REFS REFS REFS REFS	19 HEFERENCES 11	PROPERTIES	ENGTH)
OPT=0 ROUND=*/ TRACE	TSV TSV TSV TSV TMPL TMPL TMPL	15V 15V 17WPL 15V 17SV 17FP.	REFERENCES 20 DEF LINE	REFEREN 24 21 10 11 14 16 108	E STENA
74/74	RELO	ARRA PRAY	ARGS 1 ARGS 1 INTRIN	DEF LINE 18 15 11 13 36 FROM-TO	MEMBERS - 1 3 3 3 4 4 5 4 5 1 1 2 4 8 1 1 2 4 8
SUBROUTINE EXCOST3	N TYPE PEAL PEAL PEAL PEAL INTEGER INTEGER INTEGER INTEGER INTEGER	INTEGER PEAL PEAL PEAL PEAL PEAL PEAL PEAL PEAL	MODE UNFMT TYPE REAL TYPE REAL	INDEX	LENGTH 4 6 74 IMON LENGTH
SUBROUTI	VARIABLES 153 CUTCST 4 CUTPRCE 1 ERCOST 155 FILCST 154 FILCST 154 FILCST 156 FILCST 156 FILCST 151 IK		FILE NAMES TAPE2 EXTERNALS EOF INLINE FUNCTIONS ABS	STATEMENT LABELS 46 1 36 2 107 10 0 50 32 55 134 99 LOOPS LABEL 20 50	COMMON BLOCKS LEN TMPL TSV ZONES STATISTICS PROGRAM LENGTH CM LABELED COMMON

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SUBROUTINE DRNAGE3 (85TK,TPAV)
COMMON/ASALK/IBTE,FDE,BTE,GBM
COMMON/ASALK/IBTE,FDE,BTE,GBM
COMMON/ASALK/IDGETCST.DRAIN
COMMON/ASALK/IDGATO.DIPO,EPO,DLO,PERMO,M30,LENGTHO,CAVCSTO.
IFILCSTO.PIPCSTO.SLO.RNO.NOUTO,LOUTO
COMMON /SA/ALOS.WOS
DRNCST=0.0
H7F-0.0
H7F-0.0 WHITE (4.2000)
2000 FORMAT(" DRNAGE3- NO DRAINAGE REQUIRED") IF ((IRTE_E0.5).OR. (IBTE_E0.6))FDE=FDEF T=85TK+TP4V T=67TK+TP4V IF (ORALVEG.2)60 TO 10 IF (T-LT.FDE)60 TO 20 IF (T-LT.FDE)60 TO 30 IF (KDFLAG.GT.0)60 TO 40 DPNCST=0.0 TIME = (12 * EP * DL * * 2) / (2880 * PERM* H3)
IF (TIME * GT * 10 * 0) GO TO 51 IF (DTP.GE.(T.12.01)GO TO 50
DTP=T-12.0
DTP=T-12.0
HZF=FDE.00 SG
HZF=FDE.00 SG
HZF=FDE.00 SG
HZF-FDE.00 SG
HZF-FDE.00 SG IF (H2WT.GT.H2F)G0 T0 41 FCT%=2.0 60 TO 52 0L=DL/2 H3=85TK+0.5*(H3-85TK) NOUT=NOUTO H2WT=12.0 KDFLAG=10 G0 T0 2 DIP=HZWI+T 60 10 50 10 RETURN 09 41 50 ) 10 50 30 04 21 2 15 20 55 52 30 35 04 45 20

	SUBROUTINE DRNAGE3 74/74 OPT=0 ROUND=+/ TRACE	DRNAGE	5	74/74	0=140	*OUND=	/ TRA	ICE	FTN 4.6+420	09/02/77 13.54.00	13.54.00	
0		52 9	FCTR=4.0 0=(PERM*) R=((257.	FCTR=4.0 0=(PEHM+HSTK+H3)/ R=((257.09*N)/SL	13) / (6r	FCTR=4.0 52 0=(PEHWORSTXOH3)/(6000L0144) R=((257.0704N)/SL00.5)00.375 IF(H.1 1.3.0)B=3.0	- 5					
89	s		GO TO (AC NOUT=AIN) SLENGTH=C IF (FCTR.E	60 TO (66.61.62).NOUT+1 NOUT=AINT(( LENGTH+500) SLENGTH=DL+2NOUT IF (FCTR+60.4+) SLENGTH=S 60 TO 60	SLENGTH	60 TO (60.61.62).NOUT+1 NOUT=AINT(( LENGTH+500)/1000.+1) SLENGTH=DL-0.NOUT SLENGTH=DL-0.4.) SLENGTH=SLENGTH+2 GO TO 60	01) TH*2					
2		29 19	NOUT = A SLFWGT IF (FCT EXCAV=	NOUT=AINT(( LENGTH+500), SLE ¹⁶ GTH=0L*NOUT IF(FCTR+E0,2,) SLENGTH=0 ECCAV=(DP-T+4,0+K)*(12,0+C)	ENGTH+	NOUT=AINT(( LENGTH+500)/1000.*1 )  SLF:GGTH=OL*NOUT  IF (FCTR.EO.2.) SLENGTH=0  EXCAV=(010-T-6.0*) *(12.*2**R)*LENGTH=1  FI IF D=FYRVL (3 ) *(12.*2**R)*LENGTH=1	0.•1 R) *LE	NOUT=AINT(( LFNGTH+500)/1000**1 )  SLF:GGTH=OL*NOUT  IF (FCTR.EO.2.) SLENGTH=0  ECAVE.(DP-T-A.0.*R) *(12.*.2.R)*LENGTH*12				
*	s		EXCAVE FILTER EXCVCS FMCSTE	EXCAVE EXCAVAGES  FILTEWEFILTER/4656  EXCAVCATER CANCAVCAT  FMCSTEFILER PILCS  PINCSTEFILER PILCS  PINCSTELENOTH PPIPECST	6656 746656 *CAVCST FILCST							
00	•	1000	CSTLF = DRNCST WRITE ( FORMAT DRNCST END	(Excvcs =CSTLF* 6*1000) ( " DRN	T+FMCS1 (FCTR* T+FDE+ AGE3	CSTLF=(EXCVCST*FWCST*PIPCST)/LENGTH DRNCST=CSTLF*(FCTR*(LENGTH*NOUT*LOU WRITE(4.1000)T*DE.HZ*DGWT;HZWT+DTF PORMAT(" DRNAGE3 T*DE.HZ*DGWT;HZWT+DP DRNCST"/ZX*6(FS*1,2X)*F6.3*ZX*FZ*0*RETURN	NOUTE NOUTE HEWT 2F.DG	CSTLF=(EXCVCST*FMCST*PIPCST)/LENGTH DBMCST=CSTLF*,FCTR*,LENGTH*NDUT*LOUT*SLENGTH) WRITE(64.1000)T*,FDE.+HZ*,DGWT,+HZWT,DTP*,TIME,FCTR WANTE(64.1000)T*,FDE.+HZ*,DGWT,+HZWT,DTP*,TIME,WT,MTP*,TIME,MT,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME,MTP*,TIME	CSTLF=(EXCVCST*FWCST*PIPCST)/LENGTH  DRNCST=CSTLF*(FCTR*(LENGTH*NOUT*LOUT)+SLENGTH)  WRITE(4.1000)T*FDE,HZF*DGWT.HZWT.DTP*IIME,FCTR*Q.R*DL.NOUT,DRNCST  1000 FOHFAI( " DRNAGE3 T*FDE,HZF*DGWT.HZWT.DTP*IIME,FCTR*Q.R*DL.NOUT,  1DRNCST"/ZX*6(FS*1,2X)*F6*3,2X*FZ*0*ZX*7*3*ZX*3*F6*1*ZX)*F10*2)  RETURN  END			

CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

SYMBOLIC REFERENCE MAP (R=3)

AN IF STATEMENT MAY BE MORE EFFICIENT THAN A 2 OR 3 BRANCH COMPUTED GO TO STATEMENT.

 VARIABLES
 SET LINE
 REFERENCES

 4 DRNAGE3
 1 36 A2
 A2

 VARIABLES
 SN TYPE
 RELOCATION
 REFS
 7 18
 2*57

 0 ALOS
 PEAL
 BSALK
 REFS
 7
 18
 2*57

 0 ASTK
 PEAL
 BSALK
 REFS
 74
 DEFINED
 20

 2 ASS
 CAVCST
 PEAL
 BSALK
 REFS
 74
 DEFINED
 20

 5 CAVCST
 PEAL
 BSALK
 REFS
 74
 DEFINED
 20

 5 CAVCST
 PEAL
 BSALK
 REFS
 74
 DEFINED
 20

 5 CAVCST
 PEAL
 BSALK
 REFS
 78
 DEFINED
 77

 5 CAVCST
 PEAL
 REAL
 REFS
 31
 PFINED
 77

 5 CAVCST
 PEAL
 REAL
 REFS
 31
 DEFINED
 79

 5 CAVCST
 PEAL
 REAL
 REFS
 31
 74
 DEFINED

 444
 DIP
 REAL
 R

62

99

12

DEF INED

65

18

c	6,	œ œ	3	e 2 2 2 2 5 15
PAGE	39	27 28 27 27	6 57 5	c % % \$
13.54.00	37	70 DEFINED DEFINED	DEFINED 10 17	0EF INE 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4
11/20/60	DEF INED	DEF INED 79 79 71	79 DEFINED DEFINED	71 78 79 64 99 52 52
450	62	14 74 74 78 78 41 21 0EF INED	\$ 56 1	70 26 26 68 67 0EF INED 76 76 76 71 24 24 0EF INED 38 38 38 28 11 24 24
FTN 4.6-420	70	DEFINED 14 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	48 51 57 2427 12 12 13 0EF INED	DEF INED  26 74  54 63  26 10  26 10  26 10  27 10  28 10  28 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  29 10  20 10  20 10  20 10  20 10  20 10  20 10  20 10  20 10  20 10  20 10
	38	22 22 22 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	, 4 k 6 c 7 c 8	252 252 253 253 254 254 255 255 255 255 255 255 255 255
D=+/ TRACE	REFS	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	######################################	DETINED REFS REFS REFS REFS REFS REFS REFS REFS
OPT=0 ROUND=+/ TRACE	RELOCATION	DRNBLK2 BSBLK BSBLK2 DRNBLK2	BSHLK DRNBLK2 BSRLK DRNBLK2 DRNBLK2	DRNBLKZ DRNBLKZ DRNBLKZ DRNBLKZ DRNBLKZ  WRITES WRITES IN
74/74	REL			ARGS INTRIN
DRNAGE3	TYPE PEAL	2	PEAL PEAL PEAL PEAL NEGER INTEGER INTEGER	INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER REAL REAL REAL REAL REAL REAL REAL RE
SUBROUTINE DRN	LES SN OTP	EPO EXCAV EXCAV FCTR FOE FOE FILCST FILCST FILCST FILCSTO	1284 1284 130 1106410 10160 10160 10160	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	VARIABLES 465 OTP	650 100 100 100 100 100 100 100 100 100 1	1 1 1 0 0 - 3	15 LOUGH 15 LOUGH 15 LOUGH 15 LOUGH 16 LOUGH 17 PERR 17 PERR 17 PERR 17 PERR 18 SCO 18 SCO

SUBROUTI	SUBROUTINE DRNAGES	74/74	OPT=0 ROUND=*/ TRACE	=+/ TRACE		FTN 4	FTN 4.6+420	09/02/77 13-54.00	13.54.0		PAGE
STATEMENT LABELS	s	DEF LINE	REFERENCES	ES							
17 1		31									
103 2		32	47								
113 10		37	62								
126 20		41	30								
140 30		45	31								
146 40		84	32								
155 41		51	84								
160 50		25	38	04	20						
174 51		26	53								
_		65	55								
		10	62	99							
237 61		63	29								
257 52		57	62								
1000	FMT	90	19								
2000	FMT	35	34								
COMMON BLOCKS	LENGTH	MEMBERS -	MEMBERS - BIAS NAME (LENGTH)	ENGTH							
<b>HSBLK</b>		0	0 IRTE (1)		1	FDE	3	2	2 BTE	:	
		•	(1) MH9 (1)								
8SBLK2		-	FDEF (1)								
DRNBLK		-	DRNCST (1)		1	OHAIN	3				
DRNBLK2	14	0	INGWTO (1)		1	IDIPO	:3	~		6	
		(*)	(1)		3	PERMO	:	5	S H30	:	
		•	6 LENGTHO(1)		7	CAVCSTO(1)	(1)	Œ	STO	(1)	
		6	9 PIPCSTO(1)		10	SLO	:3	11	RNO		
		12			13	13 LOUTO	::				
SA	~	0	ALOS (1)		-	NOS	3				
STATISTICS PROGRAM LENGTH	ŗ	5018									
CH LABELED COMMON LENGTH	MMON LENGTH	278	23								

09/02/77 13.54.00 ### Clopping Clopping CROPP(10) CROPP(10) CSOP(10)

DATA ITA/1HA.|Hb.|HC.|HD.|HE.|HF/

DATA CLOOP/O.5.||-5.5.|-5.2.2.2.2.3.3.3.3.3.3.5.7

DATA CLOOP/O.5.||-5.2.2.2.2.2.2.3.3.3.3.3.3.5.4.7

DATA CROPP/S.15.||-5.1.5.2.2.2.3.3.3.3.3.3.3.5.4.7

DATA CROPP/S.15.||-5.1.5.2.2.2.3.3.3.3.3.3.3.5.4.7

DATA CROPP/S.15.||-5.1.5.2.2.3.3.3.3.3.3.3.3.5.4.7

DATA CROPP/S.15.||-5.1.5.2.2.3.3.3.3.3.3.3.3.5.4.7

DATA CROPP/S.15.||-5.1.5.2.2.3.3.3.3.3.3.3.3.3.3.5.4.7

FORMATION USED BY SUBROUTINE MIMICK IS MODIFIED FROM FLEXIBLE PROVEMENTS FOR ROADS. STREETS. WALKS. AND OPEN STORAGE ARRES. THE FAVE FOR STORAGE ARRES. THE FAMPLE IS. CHAPTER 3. FTN 4.6.420 ITEST = 0

If (CHR .GE = 0.0) ICRH=3

IF (CHR .GE = 0.0) .AND. | CGR .LT. | 100.0) | ICBR=2

IF (CHR .GE = 100.0) ICRH=1

IF (ITLASS .EO. | HE) .OR. (ICBR .NE. 3) | GO TO |

MWPITE (6.100) | GO TO (100.0) |

GO TO (100.200.300) ICBR

THINN=CINOP(DI) SURPOUTINE MTHICK (DI, CBR, THIKNS, LFUNC, BASET) OPT=0 ROUND=+/ TRACE INTEGER ITA(6) KLASS=ITA(LFUNC) BASET=C1008(DI) THIKNS=CANP(DI) BASET=C909(DI) THIKNS=C50P(01) 74/74 RETURN RETURN SUBROUTINE MIHICK 1000 100 300 200 2 15 20 52 30

.

PAGE

CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

54

AN IF STATEMENT MAY BE MORE EFFICIENT THAN A 2 OR 3 BRANCH COMPUTED GO TO STATEMENT.

SYMBOLIC REFERENCE MAP (R=3)

ENTRY POINTS	DEF LINE	HEFERENCES	33			
VARIABLES	S	RELOCATION				
D BASET	PEAL	F.P.	DEFINED	-	56	56
O CHR		F.P.	REFS	18	2.19	20
144 C1009		ARRAY	HEFS	4	56	DEFINED
132 C100P		ARRAY	REFS	4	52	DEFINED
202 C50P		ARRAY	REFS	4	31	DEFINED

SUBROUTINE MTHICK		74/74 OPT=0 ROUND=*/ TRACE	10=+/ TRACE		FTN 4.6-420	0250	11/20/60	09/02/77 13.54.00	PAGE	~
VARIABLES SN TYPE		RELOCATION								
8	ARRAY		REFS	4	56	DEFINED	•			
156 CROP REAL	ARRAY	*	REFS	4	28	DEF INED	• •			
	GER	F.P.	REFS	9	25	56	28	59	31	
			DEF INED	-						
1098			REFS	22	54	DEF INED	1.8	19	50	
ITA	GER ARRAY		REFS	í	36	DEFINED	. 5		:	
ITEST			REFS	22	DEF INED	17				
	GER		REFS		2.51	DEFINED				
LFUNC	GER	F.P.	REFS	16	DEFINED		2			
	PEAL	F.P.	DEF INED	-	52	88	31			
FILE NAMES MOD	0 <b>E</b>									
TAPES FMT		WRITES	23							
STATEMENT LABELS	0EF LI		CES							
1 44 1	24									
	25									
5 200	28									
5 300	31									
02 1000 FMT		23								
STATISTICS										
PROGRAM LENGTH	2148	140								

	SUBROUTINE	RODDENS	14/	74/74	0PT=0	KOOL	*= G>	OPT=0 HOUND=+/ TRACE		FTN 4.6.420	4.9.4		11/20/60	09/02/77 13.54.00	PAGE	-	-
		SUR PEA DIM	SUBNOUTINE RODDENS (IDI, DEN, ICOH, DE REAL PRIC (2), PRIN (2), COM (2), PRI (2) DIMENSION DOCC (10), DONC (10) DOCE (1	(2) •P	DENS (	101.00 000.00	1(2) • F	SURPOUTINE RODDENS(IDI, DEN, ICOH, DEP) REAL PRIC(2), PRIN(2), COM(2), PRI(2) DIMENSION DOCC(10), DONC(10), DOCC(10)	SUBROUTINE RODDENS (IDI, DEN, ICOH, DEP) REAL PRTC(2), PRTN(2), COM(2), PRT(2) DINENSION DOCC (10), DONC (10), DOCE (10), RLC(2), RLN(2), RL (2)	LN(2),	. RL (2						
	<b>v</b>	0ATA 0ATA 11.17	A (000 A	, c.		01/2	6.3.1	5,48.15	DATA (DOCE(J),J=1,10)/2.6.3.1.3.4.44.4.5.5.3.5.8.6.4.6.9/ DATA (DONC(J),J=1,10)/3541.5.4853.73.60.4.66.6.72.1.78 1.11.	.3.5.6	72.1	DATA (DOCE(J),J=1,10)/2,6,3,1,3,4,4,4,4,5,5,5,3,5,8,6,4,6,9/ DATA (DONC(J),J=1,10)/35,41,5,48,53,73,60,4,66,6,72,1,78,84,8+9	•				
-	9	DAT COM	19.50.83.  DATA PLC/52.18.0  DATA PRIC/79.999  COM(2) = DOCE (IDI)	52.18 779.9	1.0.7.	RLN/1	79.999 7.PRTN	000 12) = 100 CC 101 101 101 101 101 101 101 101	DATA HUCCIO, J.		4	.9.50.803 10.50.103.103.103.103.103.103.103.103.103.10					
	i si	30 PP 7 PP		25. TO CO. TO CO	1		5	7									
~	. ii		GO TO 6 CONTINUE DO 31 I=1.2 PRT(I)=PRTN(I) COM(I)=DONC(IDI)	.2 ITN(T)	=												
~	55		RL(1)=RLN(1) RL(2)=RLN(2) CONITNUE CALL GINT (RL,PRT,DEN,S,KK,2)	(R.P	RT,0E	8.0	(K.2)										
ſ	8	KK=2 C4LL RETUR	KK=Z CALL GINT (COM,RL,S,DEP,KK,2) RETURN END	. COM.	RL.S.	DEP.	(K.2)										

		22													17	
		15						50		-	82	21			16	
		=			7	4	5	13		DEFINED	92	14	10	10	DEFINED	
		DEF INED	-	-	DEF INED	DEF INED	DEF INED	DEF INED	-	22	DEF INED	DEFINED	DEF INED	DEF INED	53	
		53	DEF INED	DEF INED	15	11	22	2*21	DEF INED	15	59	27	14	21	27	
		2	27	59	3	6	6	5.14	2.15	11	27	2	2	2	3	
		REFS	REFS	REFS	REFS	REFS	REFS	REFS	36							
FERENCES 30	RELOCATION	*		F.P.					F.P.	F.P.						
96		ARRAY			ARRAY	ARRA	ARRA					ARRA	ARHA	ARRA	ARRAY	
DEF LINE	SN TYPE	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	INTEGER	INTEGER	INTEGER	INTEGER	PEAL	PEAL	PEAL	PEAL	
NTRY POINTS	TABLES	16 COM	O DEN	0 0EP	22 DOCC	45 DOCE	34 DONC	107 1	0 1СОН	101 0	10 KK	20 PRT	12 PPTC	14 PRTN	64 PL	
ENI	VAR				-	-	_	-			1	-	-	-	-	

SYMBOLIC REFERENCE MAP (R=3)

	SUBROUTIN	SUBROUTINE RODDENS		OPT=0 ROL	74/74 OPT=0 ROUND=*/ TRACE		FTN 4.6.420	0	09/02/77	09/02/77 13.54.00	PAGE	2
VARIABLES 160 PLC 162 PLN 111 S	ARIABLES SN 160 PLC 162 PLN 111 S	SN TYPE REAL REAL REAL	REL ARRAY ARRAY	RELOCATION	REFS SETS SETS	6 6 7 3	53 E	24	DEF INED	• •		
EXTERA	EXTERNALS GINT	TYPE	ARGS 6	REFERENCES 27	62 S							
STATEMENT 35 3 53 6 0 30	STATEMENT LABELS 35 3 53 6 0 30 0 31		DEF LINE 19 25 14 21	IE REFERENCES 12 18 13 20	NCES							
200PS	LOOPS LABEL 1 20 30 1 37 31 1	INDEX F	FROM-TO 13 14 20 21	LENGTH 48	PROPERTIES INSTACK INSTACK							
STATIS	STATISTICS PROGRAM LENGTH		1668	1668								

SUB	SUBROUTINE PECHART 74/74 OPT=0 ROL	OPT=0 ROUND=+/ TRACE	FTN 4.6-420	09/02/11	13.54.00
-	SUBROUTINE PECHARTIY, TA) REAL 11(99) + U1(72) + V(99) + V(99) + V(172) + V(99) + V(99	·V1(72)	34878787676.	85	
v	172.7.68.664.64.62.66.59.58.57.56.55.54.53.52.51.55.4 29.448.47.446.45.44.43.42.41.4.39.38.37.36.35.35.34.33. 332.31.3.29.28.27.26.25.24.23.22.0.21.2.195.195.19 48.175.17.165.166.155.167.145.135.137.145.135.137.125.12.115.115.115.	6.594.58.57.564.39.38 43.42.41.4.33.22.0 26.251.24.231.22.0 35.15.14.145.145.35	5453525156 3736353433. 21219519185 131551211511	4444	
9	6074072071.068066/ 0ATA V/0048051.055061.0651.071.078081.08509911.1 103.111.1181.121.127131.141.151.1581.1641.1681.171.1781.181.1851.851.181.181.1851.851.181.181	3.14.15.15.154.164. 118.22.23.24.242.	178080450991 1681717818185. 252552627278.	4444	
21	5.742653.7755775584487794.933.9588977.985311.02.11.032.12.0 645.1.045.1.08.11.11.11.12.11.13.11.15.11.1781.19.14.27.12.23.12.25. 0ATA VIZ. 7.2931.3311.13.41.1355.11.37.13.82.11.41.141.143.11.43.11.44511.46511.	1976.934.934.9584.97 11.13.11.15.11.1784.11.16 1355.11.37.11.382.11.44.11.	9851.1.102.1.0321.0 91851.1.102.1.0321.0 91821.1.23.1.255 1.25.1.257.1	. 444	
2	973.176.1 82.1.8840.1.985.7.276.1.577.1.985.7.605.2.105.2.149.2.197.2.247. 973.176.1 82.1.8841.1.951.1.985.7.2.623.2.105.2.105.2.149.2.197.2.2.247. \$2.248.2.358.2.42.2.486.2.557.2.635.2.72.2.813.2.915.3.029.3.157.3. \$302.3.468.3.66.3.8889.4.162.4.321.44.501.4.704.4.938.5.208.5.528.5.9	. 1 945.5 (15.1) 2 557.2 635.2 (72.2 8) 1 62.4 321.4 501.4 (70.1) 1 1 1 9 056.9 924 11 09	1052-149-2-1977-2-247 13-2-915-3-029-3-157-3-3 		
8	7/7	048047046045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045045	56055054. .044043042041 22802702602502 5014013012011.	4 4 4 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	
90	\$5002001750015001250011000875000750006250005 IF (Y.GE066) GO TO 11 KK=72 CALL GINT (VI.UI.Y.TA.KK.72)	(+72)	750006250005/		
SE .	11 KK=99 12 CALL GINT(V.U.Y.TA.KK.99) 10 CONTINUE RETURN END	(66			
SYME	SYMBOLIC REFERENCE MAP (R=3)				
NTRY POINTS	S DEF LINE REFERENCES				

35

32 1 3 25 10 17 06FINEO

OEFINED
DEFINED
DEFINED
DEFINED
DEFINED
OEFINED
36

13.54.00							
71/20/60	S 10N			- 1	12		
FTN 4.6.420	FOH MILI S FOR MILI S FOR MILI TICKNESS 5-1-235-1-2 5-13-459-			0EF INED 16 16 16 17 17 17 17	0EF1		
FTN 4.	15 TAKEN F COUIREMENTS -18 (OHIO GE PAVT TF -153-1-195 -408-12-612			DEFINED 15 DEFINED 19	DEFINED  DEFINED  DEFINED		
<b>3</b> 5	) ICKNESS HE FORT NO. 4 AND 3. 000 COVERA 005 11.11 COVERAGES.	S.KK.13)		16			ES EXT REFS
OPT=0 ROUND=+/ TRACE	60.LS.TRKK 0) 3) 3) 3) 3) 3) 3) 4) 4) 6) 6) 6) 6) 6) 6) 6) 6) 6) 7) 6) 7) 6) 7) 6) 7) 6) 7) 7) 8) 8) 8) 8) 8) 8) 8) 8) 8) 8	DUM. PERCNI		R R R R R R R R R R R R R R R R R R R		S	PROPERTIES
0PT=0 RO	DUTINE RODTHK (COVRGD COVHGG (20) TRKK (20) PCTS(13) *LOGCOV(13) PCTS(13) *LOGCOV(13) PCTS(13) *LOGCOV(13) PCTS(13) *LOGCOV(13) PCTS(13) P	15.L06C0V.	INCES	RELOCATION F.P.	å å	REFERENCES NY 16 18 18 18	S S
74/74	SUBROUTINE HODTHK(COVRGD.LS.TRKK)  REAL COVRGG(20).TRKK(20)  REAL COVRGG(20).TRKK(20)  REAL COVRGG(20).TRKK(20)  REAL PCTS(13).LOGCOV(13)  THE INFORMATION USED BY SUBROUTINE RODTHK IS TAKEN FROM  C DEVELOPMENT OF MIGID PAVENT THICKNESS REQUIREMENTS FOR MILITARY  C LARDKATON TOF MIGID PAVENT THICKNESS  C THIS CARD IS THE PERCENTAGE OF THE SOOD COVERAGE PAVT THICKNESS  DATA (PCTS(1).1=1.01)./75.958.1.045.1.1.1.153.1.195.1.235.1.284,  A1.377.1.374.1.2295.1.5.1.591.  C THIS CARD IS THE LOG OF THE TRAFFIC COVERAGES.  DATA (LOGCOV(1).1=1.13)./0.6.908.9.903.11.408.12.612.13.459.  A14.221.15.068.15.761.16.455.17.217.18.064.19.022/  DO 10 1=1.LS  COV = COVRGD(1)  DOW = ALOG(COV)	CALL GINT(PCTS.LOGCOV.DUM.PERCNTS.KK.13) RETJRN END CE MAP (R=3)	REFERENCES 20	REL	<b>ARRAY ARRAY</b>	ARGS 1 LIBRARY 5	FROM-TO 14 19 1178
SUBROUTINE RODTHK	C THIS CARE	CALL GINTPC TRKK(I) = PE TURN END END SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	REAL PEAL PEAL PEAL TNTEGER	PEAL INTEGER PEAL PEAL REAL	TYPE REAL	INDEX
SUBROUTIN	. s o si	20 SYMBOLIC	ENTRY POINTS	BLES SN COV COVRGD DUM I		EXTERNALS ALOG GINT STATEMENT : ARE: C	LOOPS LABEL 20 10 STATISTICS PROGRAM LENGTH
			ENTRY	VARIABLES 53 COV 0 COV 54 DUV 52 I	40000	EXTERNALS ALC GIT	20 20 20 20 STATIS PROG

1.4..4.4/
THE INFORMATION USED BY SUBMOUTINE FF IS TAKEN FROM
PIGID PAVEMENTS FOR AIRFIELDS OTHER THAN ARMY. TM 5-824-3
(DEPARTMENT OF THE ARMY. 7 DECEMBER 1970). FIGURE 15.
FORMAT("." INADMISSIBLE LFUNC FOR FF ") 1000 15

IF (IA.E0.1) GO TO 2 IF (LFUNC.GT.1) GO TO 3 LL=16 KK=16 AK (1) =25. *FLOAT (1) CONTINUE

20

CALL GINT (F2.AK.YAK.F.KK.LL) 60 T0 S 1F(LETINC.LT.4) 60 T0 4 HP(TETINC.EQ.4) 60 T0 6 HP(TETINC.EQ.4)

CALL GINT (F4.4K.YAK.F,KK.LL) IF (LFUNC.6T.1) GO TO CONTINUE ç ~

3

CALL GINT (F1. AK. YAK. F, KK.LL) CONTINUE IF (LF)NC.LT.4) GO TO 7 WPITE(6.1000) 60 10 5

35

00

CALL GINT (F3.4K.YAK.F.KK.LL)
CONTINUE
RETURN
END

57

SYMBOLIC REFERENCE MAP (R=3)

DEF LINE

ENTRY POINTS

REFERENCES

~			28			
PAGE		-	20 21			
13.54.00	2,	DEF INED	DEFINED 38 DEFINED			
09/02/77 13.54.00	35	3wvra	25 2 2 2 4 5			
025	\$	35 OEFINED DEFINED DEFINED DEFINED	35 25 35			
FTN 4.6.420	25	29 35 22 42 29 0EFINED	2 4 6 6	24		
	~ 4	2,0000	242-1962	95 SE	*	
10=+/ TRACE	REFS		REFS 33 REFS DEFINED REFS REFS	26 29 REFERENCES	REFERENCES 16 19 19 24 23 23 30 25 26 39	PROPERTIES INSTACK
74/74 OPT=0 ROUND=+/ TRACE	RELOCATION '	مْ مْ	i i			LENGTH 68
74/74	REL	<b>ARRAY ARRAY ARRAY</b>		A RGS	06F LINE 06F LINE 31 31 34 34 37 40 40	FROM-T0 15 17
NE FF	SN TYPE REAL	REAL REAL REAL REAL PEAL INTEGER	INTEGER INTEGER INTEGER REAL	FHT TYPE	α +	INDEX
SUBROUTINE FF			171 KK 0 LFUNC 170 LL 0 YAK	FILE NAMES TAPE6 EXTERNALS GINT INLINE FUNCTIONS	STATEMENT LABELS 61 2 77 4 77 6 116 7 115 7 115 7	LOOPS LABEL 10 1 STATISTICS PROGRAM FNGTH
	VARTABLES 272 AK	212 212 232 232 252 167	0 071	FILE NAMES TAPE EXTERNALS GINT	STATE 610 377 77 116 471 1165	LOOPS 10 STATIS

SUBROUTINE PREVENT 60 3707 TO 15		NT 74/74 OPT=0 ROUN GOTO 3704 TOTALS=TTOT+XTOTAL L=A TOTAL=X015107+TDTOT L=A TOTAL=X015107+TE(L,2699)	OPT=0 ROUND=+/ TRACE OTAL +T0T0T	8	FTN 4.6.420	• 4 5 0	09/02/77	13.54.00	PAGE	N
2699 FORMAT(1//20x;"STRATEGY ANALYSIS SUMMARY") WRITE(L, 2700)MM,TOTALS,DTOTAL 2700 FORMAT( ///5x**TOTAL MAINTENANCE COST OF THE TRIAL2x*****F10.0// 5x**TOTAL DISCOUNT MAINTENANCE COST .RIAL IS \$**F10.0) 100 CONTINUE	MAT(//20x,"STRATEGY ANAL ITE(L, 2700)MM.TOTALS.0TOT MAT( ///5x,*TOTAL MAIN) "****FI0.0/ 5x,*TOTAL C LIS \$**FI0.0)	EGY ANAL	TAL TENAN TENAN	SUMMARY") CE COST OF T		*.12.* 15* OF THE SAME	_			
70 RETURN END	TURN									
SYMBOLIC REFERENCE MAP (R=3)	MAP (R=3)									
ENTRY POINTS DEF LINE REFERENCES 4 PREVENT 1 69	REFERENCES 69									
VARIABLES SN TYPE RELOCATION 3 DT PEAL DOBK REFS			50	• ;	31	•	;			
PEAL		REF	0 10	<b>,</b> 4	DEF INED	•	00			
INTEGER	REF	PEF 4.		= 64	35 51	36 DEF INED	10	8 8	39 6	
327 ICHECK INTEGER		REFS		0,	DEF INED	12	36			
IEND INTEGER		REFS		4 Å	45	20	25	55	57	
O INDXRF INTEGER ARRAY NOXRF RFFS	NOXBE	DEF INE	0	33	4 v	51 54	92	4	17	
30			0	<b>'</b> ='	27	£	,	}	;	
352 ISTART INTEGER PRONTI REFS					٠ د	DEFINED	.,	o's		
ITY INTEGER DORK		REFS			35	34	36	2		
		REFS		5.59	DEFINED	58				
KA INTEGER		S T S T			<u> </u>	25	DEF INED	13	7	
L INTEGER	REFS	REFS			07	17	DEFINED	38	19	
	I/O REF	I/O REF	•	37	4 60	55	23	DEFINED	•	
INTEGER F.P.		REFS		55	79	DEF INED			:	
O NSTRT INTEGER AND F.D. REFS	0.0	REFS		58 3	DEF INED	) OFFINED				
TCLNORN REAL		REFS		14	DEFINED	17				
PEAL	REFS	REFS		45	DEF INED	. 62				
TOTOT PEAL		RUFS		45	9	DEF INED	50			
TAU PEAL ARRAY F.P.	F.P.	REFS		e ;	50	0 7	25	DEF INED	-	
TOTALS REAL	REFS	REFS		70	DEFINED	65		;	,	
TTCRPT REAL	N 4 H A	MEPS		0 4 4	DEFINED	DEF INED	31	32	04	
PEAL	S S S S S S S S S S S S S S S S S S S	REFS		4.0	29	DEF INED	19			
11355		REF			DEF INED	15				
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FTN 4.6+420	OEF OEF
4 NTA	DEFINED 60 DEFINED DEFINED DEFINED 59
	522 522 522 523
74/74 OPT=0 ROUND=+/ TRACE	REFS REFS REFS REFS REFS
OPT=0 ROUP	RELOCATION  ES, SEE ABOVE
	S SN TYPE RELOCATION CCLEAN REAL CDISTOT REAL REFEAL REAL SCLUAT REAL XTOTAL REAL VARIABLES USED AS FILE NAMES, SEE ABOVE
SUBROUTINE PREVENT	N TYPE REAL PEAL PEAL PEAL REAL REAL SEAL
SUBROUTIN	XCLEAN XCLEAN XDISTOT XREPAIN XPESLAB XSLJNT XTOTAL
	VARIABLES 344 XO 346 XO 340 XR 342 XR 341 XS 345 XT

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PAGE				38																			i	21	71	30		2.38																		
09/02/77 13.54.00				31							45							25	;				•	11	OFF TAFO	36		31					;	92						;	\$	8	2	50		
09/02/17				96	15					9	30							12		-	25			- **	; ;	23	;	30				1,4	,	2	57	30	7	45		;	2	- 07	:	-	,	35
450	,			29	DEL INED					20	36				62.	1 ac	0.5	20		DEFINED	18	39		DEF INE	0cr 1 NC U	2002	19	53	23	54		DEF INED		DEF INED	77	DEF INED	07	24			DEFINED	OET INED	5	DEF INED		-
FTN 4.6.420				26	95	90		41		DEFINED	מבי זאנים	31	30		82	DEFINED	201	60	43	19	DEFINED	2*38	36	21	0 4 4	5	DEFINED	28	DEF INED	DEF INED	2041	30	;	90	• 0	36	DEFINED	DEF INED	92	,	9 6	2.5	. 4	30	50	DEL INED
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OPT=0 ROUND=+/ TRACE				REFS	0566	RFFS	REFS	REFS	REFS	REFS	0550	REFS	REFS	REFS	2000	NFF.	REFS	REFS	REFS	REFS	REFS	REFS	KERS	2550	RFFS	REFS	67	REFS	542	DEFE	REFS	REFS	5 6 6 6	2 1 3 0	REFS	REFS	REFS	HEFS	REFS	2 2 2 2 2	5 2 3 0	DEFE	DEFINED	REFS	200	KET S
0PT=0 ROU		REFERENCES 53	HELOCAT ION	AHBK	TNAGO	PHYNT	PRVNT	PRVNT	PRVNT		TNYOO	TNVAD	PRVNT	PRVNT	2 4		PRVNT	NOXRE	PRVNT	F.P.		PRVNT	SCANS							TNVGG	PRVNT		2	TNVGG	PRVNT				PRVNT	222	9	111		a. u.	UMBLA	
74/74	MAP (R=3)	REFER 53	HE.															ARRAY														ARRAY		ABBAY	ARHAY						VACGA	ARRAY				
NE RIGIO	REFERENCE	DEF LINE	SN TYPE	PEAL	PF AI	PEAL	PEAL	PEAL	PEAL	PEAL	PFAI	PEAL	PEAL	REAL	TNTFOFD	INTEGER	TATEGER	TNIFGED	INTEGER	INTEGER		INTEGER	0000000	INTEGER	INTEGER	T REAL	PEAL DEAL	PFAL	PEAL	PEAL	PEAL	PEAL	PEAL	DEAL	PFAL	PEAL		REAL	PE AL	u						
SUBROUTINE	SYMBOLIC	POINTS	ES	AREA	CLADAN	CLNSWP	COSTF	COSTR	CRSL	DISTOT	FACTRI	FACTRZ	FACTR3	FRSTSL	IFNO	IFACT	IFL	INDXPF	186	ISTART	ISTRI	JCYCLE	700	KRED	KS	AN		NB		Nei		PERCENT	0100	BEDEL	Sedaga	RESLAB	PIGMAN	RICPAR	SCLPOP	S. INT	- CAL	TOTAL		TRKK	20.00	ACLEAN
		ENTRY	VARIABL	25.0	3,6	04	24	S	*	250	-	2	•	4 0		247	70	0	33	0	172	37	0	255	540	242		543	27.6		•	257	37.6	77	1	250	253	524	= ;	346	-	0		0	0 0	•

	SUBPOUTINE	E R1610	74/74	OPT=0 ROUND=*/ TRACE	==/ TRACE		FTN 4.6-420	420	11/20/60	09/02/77 13.54.00	PAGE	
VARIABLES 0 xD1 0 xRE 0 xRE 0 xRE 0 xRE 0 xSL	LES SN XDISTOT XREPAIR YRESLAB XSLJNT XTOTAL	TYPE REAL REAL REAL REAL REAL	REL	RELOCATION F.P. F.P. F.P.	REFS REFS REFS REFS	33 4 6 4	DEFINED DEFINED DEFINED DEFINED DEFINED		28483			
INLINE	INLINE FUNCTIONS	TYPE INTEGER	ARGS 1 INTRIN	DEF LINE	REFERENCES							
STATEM 201 0	STATEMENT LABELS 201 1900 0 7803		DEF LINE 47 52	REFERENCES 43 19	ES							
LOOPS LABEL 26 7803		INDEX .	FROM-10	LENGTH P	PROPERTIES EXT	EXT REFS						
СОММОЛ		LENGTH 1 3	MEMBERS -	MEMBERS - BIAS NAME(LENGTH) 0 AREA (1) 0 TRST (1) 0 INOXRF (35)	ENGTH)							
	PRVNT	<b>6</b>	33,85	TCYCLE FACTR3 NRG CRSL JCYCLE		7,500	1 FACTR1 (1) 4 FRSTSL (1) 7 REPRG (20 29 PTCH (1) 32 CLNSWP (1)	ee8ee	33025	2 FACTR2 (1) 5 COSTR (1) 27 IRG (1) 30 CLNORN (1) 33 SLCT (1)		
	SCAN3 TTL	35.1				4 16	SCLPOP (1)		8	183		
STATISTICS PROGRAM CM LABEL	ATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH	40N LENGT	34.08 H 2038	224								

SURPOUTINE FLEXBL (TTSLCT.TTCRPT.TCLNDRN.TCLNS#P.TTOT.TDTOT.
• ISTART.IEND)

PEAL LDRR DIMENSION REPFL(10.2).HEPRG(10.2) DIMENSION TOTAL(35) DIMENSION SLCOAT(35).CRKPTCH(35) INTEGER FYSTSL.SEALYH(15).INDXRF(35) DIMENSION CCLUNK(35).CCLNSWP(35)

10

15

53

PAGE

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DIMENSION CCLNDRN(35) CCLNSWP(35)

DIMENSION CCLNDRN(35) CCLNSWP(35)

COMMON JOHNEY AREA

COMMON JONNEY INST

COMMON JONNEY INDER

* ING. CHSL.PICH.CLNDRN.JCYCLE.CLNSWP.SLCT.COSTF.NFL.REPFL.IFL

* SCLPOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IF (L.EG. (L/JCYCLE) *JCYCLE) CCLNDRN(I) *CLNDRN*AREA
IF (JDL-(L/JCYCLE) *JCYCLE.LE.JCYCLE/2) CCLNDRN(I) = 0.
TCLNDNN=TCLNDRN*CCLNDRN I)
CCLNSPP (I) = CLNSPP*AREA*L
TCLNSPP =TCLNSWP*CCLNSWP(I)
FLYPAR=0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JYP=1START-1

IF (1STAPT.NE.1) 60T0 16

IF((ITY-EQ.2).OR-(IREST.EQ.2)) JYR=100

IF((ITY-EQ.2) JJ31

IF((ITY-EQ.2) SEALYR(1)=FRSTSL

INDXRF(JDL)=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IF (INDXPF(I),NE.3) JYR=I

IF((IYR-JYR),6E.8) IJ=IJ+1

IF((IYR-JYR),6E.8) SEALYR(IJ)=JYR+5

IF((IYR-JYR),6E.8) I=JYR+5
                                                                                                                                                             COMMON HESTRIBEST.DREST.ICOUNT
COMMON YSCANJ JDL
COMMON YILL/IOTAL
COMMON /IYPBK/ LMM.LFUNC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCLNDPN(I)=0
                                                                                                                                                                                                                                                                                                           ISTHT=ISTART
                                                                                                                                                                                                                                                    LDRR=5.92
UNLDRR=3.65
                                                                                                                                                                                                                                                                                                                                                                                                                                         I=ISTAPT-1
                                                                                                                                                                                                                                                                                         17=0
                                                                                                                                                                                                                                      1=56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IYR=
```

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17

35

16

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151

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302

0,

PAGE					<b>SS</b>	25				1,1						0,	51	69					23	30
13.54.00					25	20	55			9,						39	20	67	;				DEF INED	DEF INED
11/20/60					1.5	DEFINED	DEFINED			DEFINED				65	61	38	67	4.65	3.		•	•	745	45
420					9	9	9			9		69		58	52	2.34	48	26	'n		00000	DEF INED	3	34
FTN 4.6+420	JS+2)				£3	95	26	55 55	65	64	46	DEF INED		DEF INED	DEFINED	33	47	55	26			1 0	36	12 27
	REA AR=REPFL ( JS+1 +CCLNSWP (				۰	œ	<b>a</b> 0	13	5	2 9	13	13	12:	69	99	32	46	24	7 7	13	= ;	9 5	35	16
OPT=0 ROUND=4/ TRACE	FLXWAN=0.  IF (L.EQ.(L/NFL) *NFL) FLXMAN=COSTF*AREA  IF (JS.GT.IFL) GO TO 1900  IF (INT (REFL(JS.1)*.001).EQ.L) FLXPAR=REPFL(JS.2)  IF (INT (REFL(JS.1)*.001).EQ.L) JS=JS*1  CONTINUE PATCH=PTCH*ANEA  TOT=SCCOMT(1)*COMPTCH(I)*CCLNDRN(I)*CCLNSWP(I) *PATCH				REFS	64 REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	5442	53	REFS	REFS	REFS	REFS	REFS	REFS REFS
0PT=0 HOUN		**************************************		NCES	RELOCATION ARBK			PRVNT	PRVNT	2	PRVNT	TNVAG	PRVNT	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1				RESTR	PRVNT	DORK	P. 1		NDXRF RESTR
14/14		101=101+PLXAAN+PLXPAK 1014L(1)=101 1101=1101+101 10101=101/(11.+1RS1)+Pl) 10101=10101+0101 CONTINUE RETJRN	MAP (R=3)	REFERENCES 72	REL	ARHAY	ARRAY			APRAY														ARRAY
E FLEXBL	1900 CO	1701 1701 1701 1701 ENDI ENDI	RFFERENCE MAP (R=3)	DEF LINE	TYPE	PEAL	PEAL	PEAL	REAL	PEAL	REAL	PEAL	REAL	PEAL	REAL	INTEGER			TNTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER
SUBROUTIN	0 S	2	SYMBOLIC	ENTRY POINTS	LES SN	CCLNDRN	CCLNSWP	CLNSAP	COSTF	CAKPICH	CRSL	FACTRI	FACTRZ	FLXMAN	FLXPAR	1			TCOUNT	TCYCLE	001	IFL	2	INDXRF 12EST
	• •			ENTRY	VARIABLES 0 APEA	470	533	90,	45	404	36	342	~	337	336	333			2	0	0 0	70	330	00

3		2		\$	
PAGE	13	% % %	ç,	<b>\$</b>	
13.54.00	44 DEFINED	20 DEF INED 61	3,6	DEF INEO	
11/20/60	31 29 38	0EFINED 38 2*59	52 29 DEF 1NEO 54 56	0°C 4004	
420	26 24 24 34 34 53	2*37 2*37 55 55 47	64 2*61 DEFINED 65	68 DEFINED 1 1 22	
FTN 4.6.420	25 06FINED 27 36 2*52 30	2*56 2*36 53 06FINED 46	0EFINED 64 13 13 13 43 0EFINED 0EFINED	67 18 69 0EFINED 0EFINED 0EFINED	
	24 24 35 35 113	2452 2452 51 51 61 61	28 4 4 EL 5 6 E 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	65 64 68 68 74 68 68 74 68	EXT REFS
D=*/ TRACE	REFS DEFINED REFS REFS REFS REFS REFS	DEFINED SEES SEES SEES SEES SEES SEES SEES S	######################################	REFS REFS REFS REFS REFS REFS REFS 61	PERTIES
OPT=0 ROUND=*/ TRACE	PELOCATION F.P. DOBK PAVNT PAVNT PAVNT SCAN3	TYPOR TIVER TIVER	agga arran		REFEREN 26 40 42 44 41 60 1528
74/74	RELO		48844 48844 48844	ARKAV ARGS INTRIN	DEF LINE 30 30 31 30 43 6 71 71 780M-T0 42 43 44 71
E FLEXBL	TYPE INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER	INTEGER INTEGER INTEGER INTEGER INTEGER	PEAL PEAL PEAL INTEGER PEAL PEAL PEAL PEAL PEAL PEAL	PEAL PEAL PEAL PEAL PEAL PEAL TYPE INTEGER	INACTIV INACTIV INDEX
SUBROUTINE FLE	LES SN 186 1START 1STRT 11Y 1YR JCYCLE	JYR JYR LEFUNC LEFUNC NEL	PATCH PATCH PEPFL REPRG SCLPOP SEALYR SLCOAT TCLNDRN TCLNDRN	TOT TOTAL TRST TTCRPT TTOT TTSLCT UNLDBR FUNCTIONS	STATEMENT LABELS 55 16 63 17 0 151 0 151 137 1702 254 1900 LOOPS LABEL 130 151 141 1701
	VARIABLES 33 186 0 15T 331 15T 1 17Y 37 JCY	324 332 332 325 325 43	94 7 4 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	341 0 0 0 327 INLINE	STATEM 53 63 63 63 63 63 137 254 1.000PS

SOBRO	SUBMOUTINE PLEABL		*//*	2 0 1 10	TATA OF I ROUNDER INDE	071+9-1 NIL		09/05/1/ 13:54:00	PAUL
COMMON PLOCKS	S LENGTH		MEMBERS -	BIAS NA	5 - BIAS NAME (LENGTH)				
ARBK			_	) AREA	3				
DM9LK	orași.	_	~	TRST (	3				
000x	. •	•	•	001 0	3	1 177 (1)			
NOXRF	36		_	1 INDXRF	(35)				
PRVNT	š		0	1CYCLE	3	1 FACTR1 (1)	2	2 FACTR2 (1)	
			• 1	3 FACTR3	E C	4 FRSTSL (1)	5	COSTR (1)	
			•	S NRG	:	7 REPRG (20)	27	186 (1)	
			35	9 CRSL	(1)	29 PTCH (1)	30	CLNDRN (1)	
			31	JCYCLE	(1)	32 CLNSWP (1)	33	SLCT (1)	
			36	COSTF	3	35 NFL (1)	36	REPFL (20	•
			56	S IFL	3	57 SCLPOP (1)			
RESTR		9	_	1 IREST	3	1 JREST (1)	~	2 ICOUNT (1)	
SCAN3		-	_	שטר נ	3				
11.	36	2	9	TOTAL	(32)				
TYPBK		2	•	CMH C	3	1 LFUNC (1)			
STATISTICS PROGRAM LENGTH CM LAGELED COMMON LENGTH	VGTH COMMON LI	ENGTH	6169 2129	398 138					

~													5.40	•						*1	:		34	36									•	1									
PAGE			9	:									2.32	24			36			31	:		30	*					48				•	•									
09/02/77 13.54.00			;	?		30	2		04				27	36			34	23		DEF TMED	-	54	91	30					36					-						9,			
11/20/60			;	95		52		0,4	36				92	31			30	92		*	;	22	DEF INED	2					31				200	DET INCO						£4			
• 450			;	35		20 DEFTNED	מבי זוארם	DEFINED	34		76	2	52.2	17			17	52.5		9	2	DEF INED	34	22	45				16				:	15		1	94	-		1,			
FTN 4.6.420			:	C 4		19	S X	3.4	92	27	71	2	2*20	DEF INED	20		97	2.50	54	71	2	46	30	18	45	;	35		15				• •	*		DEFINED	23	DEF INED	36	36			
				35	00	9 °	, ,	3 4	e	52	<b>1</b> 0 <b>4</b>	•	19	5.49	6 5	12	01	5.19	18		34	23	16	•	4	•	21:	::	::	11	=	=:	-	0 0	0	2	1	94	2	v (	<b>7</b> a	=	. œ
OPT=0 ROUND=+/ TRACE				DEF INED	REFS	REFS	0660	REFS	REFS	DEF INED	200	REFS	REFS	2*43	REFS	REFS	REFS	REFS	DEFINED	REFS	30	REFS	REFS	REFS	39	REFS	KETS	מבוש	REFS	REFS	REFS	REFS	AEP S	BEFS	PFFS	REFS	REFS	REFS	HEFS	REFS	DEF INEU	2000	REFS
0PT=0 ROU		ENCES	RELOCATION	אסרא	LCY	MIXBLK					N I I	HBLK			POOLOD	RODLOD	MIXBLK			SCANS				<b>LC</b> 4		LTTBLK	200700	Z I	NOLK	NHLK	NBLK	NULK	NBLK	N IN IN	MIXBLK	F.P.	HBLK	F.P.	BMBLK	BMBLK	2	N.B. K	רכא
74/74	ENCE MAP (R=3)	REFERENCES 52	RE	4444		ARRAY	-	ARHAY	ARRAY		ADDA	ARRAY			AKKAY											ARHAY								ABBA	ARRAY		ARRAY		APHAY	ARRAY	24004	-	
E 800		DEF LINE		WE AL	REAL	PEAL	DEAL	REAL	REAL		DEAL	DEAL	INTEGER		INTEGER	INTEGER	INTEGER	INTEGER		INTEGER		INTEGER	INTEGER	INTEGER		INTEGER	IN FORK	TNTFORD	INTEGER	INTEGER	INTEGER	INTEGER	IN LEGEN	DEAL	DEAL	PEAL	PEAL	PEAL	PEAL	PEAL	DEAL	DEAL	PEAL
SUBROUTINE RDO	SYMBOLIC REFERI	ENTRY POINTS	ILES SN		AXK	COVRGO	200	MOO	DOMBGD	00.0	FALLS	I			105	108	IMIX	7	Ġ	, הר י		X	_	rs		1	7	000	LON	N0560	NPTO	OX	2 1	STORIO	ST0820	7.	I	2	TAA	TRAA	0.61	2	YKO
		ENTRY	VARIABLES	9	•	310	365	722	415	;	0		362	:	2 *	0	620	363	•	9		364	361	27		0.		0 0		•	~	n .	* •	0 0	144	•	12	•	•	54	•	u r	-

9												
PAGE												
0									500	(500)	33	E
13.54.0									30 AHH 2 THYO	200 COVRGD (200)	N000	10F
09/02/77 13.54.00									30	200	~ 15	~
•	34											
FTN 4.6.420						a a	ER ER			(100)	888	68
F.TN 4	30				34	NOT INNER	NOT INNER		20 TRAA 10 TM 1 YKQ 23 LS	STOREG		[7]
	91				30	REFS	REFS REFS REFS	REFS REFS	20 10 10 23	100 1	-41	-
ACE			NCES			EXX	EXT EXT EXT	EXT EXT				
D=+/ TR	15	9 0	REFERENCES 51	CES 24	16	PROPERTIES 0PT 0PT	INSTACK	INSTACK	(CENGTH) (20) (100) (10) (1)	1001		
OPT=0 ROUND=+/ TRACE	WRITES	REFERENCES 23 36 41 47	DEF LINE	REFERENCES 18 2+26 26 26 17 31 48 39 42 42	15		158 118 58 158	118 68 58 108	NAME	01.	0900 0000 0000 0000	108 JOL 11
	•	REF ARY	DE INTRIN	e e		Ę				0 STO	000	
74/74		ARGS 6 8 3 1 LIBRARY	ARGS 1 INT	DEF	8. 4.	FROM-TO 16 15 16 15 17 29 18 21			MEMBERS			
E ROO	FMT	TYPE	REAL	INACTIVE	FMT	L L I C X NOE X	<b>X → </b>	J	LENGTH 40 100 40 24	401	Œ	- 3
SUPROUTINE ROO	TAPES	GINT FIXED RODIHK SORT	INLINE FUNCTIONS AINT	STATEMENT LABELS  117 3  117 3  0 5  0 10  10  231 19	00	LABEL	۰۰۰			LTTBLK	NBLK	RODLOD
	FILE NAMES TAP	EXTERNALS 612 617 617 610 600 506	INLINE	STATEMEN 117 117 117 117 117 117 117 117 117 11		27 27 30 50 50 50	8 1 1 1 1 1 1 1	2223	NO			

PAGE 09/02/77 13.54.00 FTN 4.6.420 74/74 OPT=0 ROUND=+/ TRACE 492 7548 11758 STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH SUBROUTINE RDO

	SUBROUTINE MOAC	MOAC	74/74 OPT=0 ROUND=#/ TRACE	FTN 4.6+420	11/20/60	13.54.00
•	•	1000			<b>`</b>	
\$5	v	22	60 TO 22 CBR=100. CALL WTWICK(IDF,CBR,TLIM,LFUNC,BASET) TUU=TLIM+4.T.TUUI) 60 TO 16			
0.		4	TKH=THK-TLIM MMM=NCOM+NSBR-LJ+7 CALL SERCST (MMM+TKH+SIC) TLH=TLIM CONTRIBE			
2	•	2 2				
8	•	2 2	CALL SENCST (NNN.THK.SYC) CTOV=SYC*AREA IF (CTOV1.6T.0.) CTOV=CTOV*CTOV1 CONTINUED IF (M.GT.NSTRT) K=K*1 This Loatik)			
8	<b>v</b>		IF(K.EQ.O) TN=FLOAT(KKEP) IF(M.GT.1) GO TO 100 IF(JSKI!-NE.1) GO TO 300 IF(ITY-EQ.1) NNN=NCOM+NSBB+NB+B			
8 8		100	60 T0 200 If (JISKIP.NE.1) GO TO 300 LL=INT(TMO(J.))1) NNN=(LL-*?).NCOM+NSBB.NB.8 CONTINUE CALC SEMCST (NNN.TN.SYC)			
100	•	300	CH=SYC*ARFA CTOT=CTOV*CR CP=0. CTOV=CTOT ((1.*TRST)**I) COM=COM*CTOT			
105	8	-	CONTINUE MM=1CONT CALL PREVENT(TMO.STRT.NSTRT.DTOTAL.MM) COM=COM+COTOTAL GOM=COM*FACTOR RETURN END			

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74/74	NCE MAP (R=3)	REFEE 107	R												APRAY				ARRAY																								
VE MOAC	REFERE	DEF LINE	1 TYPE				PEAL		REAL	PEAL	PEAL	PEAL	PFAL	REAL	PEAL	INTEGER	TATEGED	INTEGER	TNTEGER	INTEGER	11415.05.4	INTEGER	INTEGER	INTEGER	INTEGER	INTEGED	INTEGER	INTEGER	INTEGER	INTEGER	-	INTEGER											
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INE MOAC	SN TYPE INTEGER INTEGER INTEGER INTEGER	2	REAL PEAL PEAL PEAL PEAL PEAL PEAL	REAL REAL MODE FMT TYPE	S TYPE INTEGER
SUBROUTINE MO	VARIABLES 243 NB 51 NCOM 0 NNAT 516 NNN 146 NS98			52 ZCBR 244 ZMT FILE NAMES TAPE6 EXTERNALS MTHICK PREVENT SERCST TLMM	STATEMENT LABELS  STATEMENT LABELS  10 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1
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2	- BIAS 0 ARE 0 ICO	0 100 V	42 ZCB	2 10 6 6 7 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	2 E E
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FTN 4.6+420

SUBROUTINE MOAC 74/74 OPT=0 ROUND=+/ TRACE

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OPT=0 ROUN		NCES	RELOCATION	CSTBK		F.P.	0313	CUSB				SCAN3						LY10	LYTO		LYTD	d. d.		F.P.		DMALK	LY10	LYTO	REFERENCES	DEF LINE		REFERENCES 21	==	2 1 2	52	23
74/74	FERENCE MAP (R=3)	REFERENCES 52	REL	ARRAY																		> 400		ARRAY			4 4 4 4 4	ARRAY	APGS 3	ARGS INTRIN	1	DEF LINE 51	4 9	71	87	36
NE USAC	3	DEF LINE		PEAL					INTEGER	TATEGER	INTEGER	INTEGER	INTEGER	TNTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TATEGER	PFAL	PEAL	REAL	PEAL	7 P P P P P P P P P P P P P P P P P P P	PFAL	REAL	TYPE	TYPE PEAL INTEGER						
SUBROUTINE	SYMBOLIC	ENTRY POINTS	PLES S	CCCST	CTOT	200	פרכב	DLCR		101	٠, ٦	705	¥	KKEEP			1 2			NAN	NS98	STRI	SYC	140	2	2 2	YCBR	2088	EXTERNALS SERCST	INLINE FUNCTIONS FLOAT INT		SINIETENI LAMELS	~~	4 0	**	15
		ENTRY	VARIA	30	231	213	0	-	220	224	216	0	217	223	222	221	263	51	0	556	146	00	230	0	522	147	-	25	EXTERN	INLINE	24754	0	33	73	103	123

SUBROUTINE USRC	ISRC	74/74	0PT=0 RO	OPT=0 ROUND=*/ TRACE		F1N 4	FTN 4.6.420	09/02/77 13.54.00	13.54.(	0	•
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COMMON RLOCKS LEN CSTHK LUSR DMBLK LYTD CYTO	LENGTH 1000 2 2 1 164 1	MEMBERS -	S - BIAS NAME (LENGTH) 0 CCCST (1000) 0 DLCF (1) 0 TRST (1) 0 NNAT (1) 42 ZCBR (60) 163 NB (1) 0 JDL (1)	E(LENGTH) 11000) 1113 113 113 (60) (13)	102	1 DLCR 1 YCBR 02 NSBB	3 3 G	103	41 NCOM 103 XHT	(1)	
STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH	N LENGTH	22208	163								

SUBRODINE MIXED(C.F.N.H.T.D.IM.LS)
DIMENSION C(10.LS).F(10.N).H(N).XMRN(20).T(20).D(20).YMRN(10)
3000 FORMAT(" MIXED-X.AP ".ZF10.Z)
3100 FORMAT(" MIXED- THICKNESSES ARE IN ERROR.MUST BE LARGER")

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PAGE

DOII LR=1.N

IF (YMWN (LK), GT.X) KOUNT=KOUNT+1

IF (KOUN'.EQ.N) WRITE (8,3100)

IF (KOUN'.EQ.N)

CALL GINT (H.YMRN,X.AP,KK.10)

WRITE (6,3000) X.AP

0,

0(1)=SORT(T(1)) +.74 0(1)=(AINT(D(1)))++2 0 CONTINUE RETURN

200

475

45

SYMBOLIC REFERENCE MAP (R=3)

DOIO LK=1.N
IF(XMPN1LK).LT.X) KOUNT=KOUNT+1
IF(KOUNT.FQ.N) AP=1.
IF(KOUNT.FQ.N) GO TO 4
CALL GINT(H.XMRN.X.AP.KK.20)

10

52

WRITE(6.3000)X.AP 60 TO 475 CONTINUE 7MPV(J) = XMRN(J) CONTINUE KOUNT=0

401

30

260

450

35

IF (IRN. EQ. IT) GO TO 500

50

XMRN(J)=ALOGIO(RN)

405

400

15

IF (N.LE.10) GO TO 401

DO 400 K=1.12 XMPV(J)=C(K.1)/F(K.J)+RN PN=XMPN(J) IF (PN.EU.O.) IRN=IRN+1 CONTINUE

IRN=0 00 405 J=1.N RN=0.

10

x=0.0 00 500 I=1.LS

T(I)=0. D(I)=0.

Note	~					ç						33				;	8									
NE   LINE   REFERENCES   REFE	PAGE				•	45		5.46				01		0,			2-	. 1	;	24						
NE   HIXED	13.54.00		3			<b>*</b> 0	-	54.2		15		DEF INED		39	37	;	OFF TNFD	11	7	7	ž	34				
NE MIXED	11/20/60		3	;			DEFINED	77	-	•		2.34	12	38	5,5	-;	127	DEF INED	1	38	92	DEF INED				
NE MIXED	•450		17		DEF INEO	OFF INFO	4	13	DEFINED	DEF INED	19	7 :	DEF INED	72	DEF INED	DEFINED		17	DEF INED	30	52	1,				
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NE MIXED  DEF LINE  REAL  REAL			28	92	~	~ ~	۰ م	~	9 2	15	50	2413	28	52	32	2	3.5	13	~	25	n ~ <u>r</u>	2~	2			
NE MIXED 74/74  DEF LINE REFEREN  N TYPE RELL  REAL ARRAY  REAL ARRAY  REAL ARRAY  INTEGER  REAL ARRAY  S TYPE ARGS  REAL 1 INTRIN	D=+/ TRACE		REFS	UEF INED	REFS	REFS	REFS	REFS	DEF INEU	HEFS	REFS	REFS	REFS	REFS	REFS	REFS	NEP S	REFS	REFS	REFS	REFS	REFS	30		REFERENCES	
NE MIXED 74/74  DEF LINE REFEREN  N TYPE RELL  REAL ARRAY  REAL ARRAY  REAL ARRAY  INTEGER  REAL ARRAY  S TYPE ARGS  REAL 1 INTRIN	OPT=0 ROUN	CES	CATION		<b>d</b> .	1	<b>a</b>		F.P.							9.1			f.P.				WRITES	REFERENCES 17 28 45	DEF	
NE AND SEA OF THE SEA			RELO		ARRAY	ARRAY	ARRAY												ARRAY		ARRAY	ARRAY		IARARY IBRARY	ARGS INTRIN	DEF LINE 335 9 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1
SUBROUTS  4 MIXED  4 MIXED  5 316 AP  0 C  0 C  0 F  275 II  307 II  307 KMN  307 KMN  307 KMN  307 KMN  FILE NAMES  EXTERNALS  6 10  6 10  6 10  127 4  124 10  133 401  10 650  134 401  175 475  276 10  175 475  277 4  276 110  177 4  277 10  177 4  277 10  177 4  277 10  177 4  277 10  177 4  277 10  177 4  277 10  177 4  277 10  177 4  277 10  177 10  177 175 175  277 10  177 175  277 10  177 175  277 10  177 175  277 10  177 175  277 10  177 175  277 10  177 175  277 10  177 175  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 10  277 1	INE MIXED		SN TYPE	•	PEAL	PEAL	PEAL	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	IN FORK	PEAL	PEAL	PEAL	REAL	REAL		α α	S.	vi FF
	SUBROUT	ENTRY POINTS									302 17	× 100					2		L 0	× 712			FILE NAMES TAPE6 TAPE9	EXTERNALS ALOGIO GINT SQRT	INLINE FUNCTION	STATEMENT LABEL 127 4 0 10 0 400 133 401 0 450 175 475 212 500 240 3000 244 3100

	SUBROUTINE BTCT	BTCT	74/74 OPT=0 ROUND=#/ TRACE	FTN 4.6-420	09/02/77 13.54.00	13.54.00	
		:	TRKK(I)=TRP02(I)				
9		0	CONTINUE KK=LS				
			CALL GINT(CVD.TRKK.TT.CD.KK.20)				
			IF (LZ.Eq.3 ) GO TO 84				
,			00 1 1=1.7				
6	•		100=5				
			DUM (J) = THICK (FMH, J. I)				
		=	CONTINUE				
;			XX=1NO				
0			CALL GINT (DUM. COV. CD. TC. KK. 10)				
			CONTINUE				
			XX=7				
75			00 2 1=1.7				
		•	THK (1) = 1 HK (1) - 1 TT + TT				
		98	CONTINUE				
			7=1				
80			IF (LZ.EQ.3) CALL RODTHK (NUM.Z.TRLL)				
			00 3 1=1.11				
			JF(1.E0.1) 60 TO 4				
			7=1-1				
;			AXXK=AKEF(J)				
82			IF (L7. F.O. 3) 60 TO 77				
			THE STATE OF THE S				
			CALL SINICIPA AKAY AXXX TITOKKOT)				
		11	SOLI INCIDE				
96			CALL COVSK (AXXK.XSTP.PP)				
			TT=RP*TRL (1)				
		118	CONTINUE				
			T8T(1)=TTT				
1			BT(1)=10.4FLOAT(J)				
5			60 10 3				
		*					
			CONTINUE				
			816=10000000.				
100			IF (INTE. EQ. 1.08.181E. EQ. 3) FDE= 1.				
			00 5 1=3.51				
			ASTK=FLOAT (1-1) *2.				
105			CALL SEMCSTINK+BSIK+BASE)				
			CALL GINT (TBT.BT.BSTK, TPAV.KK.11)				
			SAVT=TPAV				
			TPAV=AINT (TPAV+.74)				
110			TE (TECUTT (1) NE O1 CO TO TO TO				
-			IF CHIGONALNELS GO TO NO				
			IF (TPAV.GT.BSTK) TPAV#30.				
		30	CONTINUE				
			CALL SERCST (KK, TPAV, PAV)				

74/74 OPT=0 HOUND=*/ TRACE WRITE(6*1019)18T.8B.TK.TPAV.PAV.BASE F(DRAH)21.21.01.500 10 39
IF UPAIN. 67.2.5) GO TO 40 CALL DRNAGE3 (BSTK.TPAV) CALL 39 OPNCST=DRAIN IF (FARTHWK.LT.0.5) GO TO 49 IF (FARTHWK.GT.10.) GO TO 50 CALL EXCOST3 (BSTK.TPAV)
CSTPAB=HASE+PAV+(ERCOST/AREA)+(DRNCST/AREA) T=RSTK+PAV+(FSWIT(1),EQ.2) G0 T0 IF(IFSWIT(1),EQ.3,0W,IFSWIT(1),EQ.2) G0 T0
ONTINUE F(T.LL.F/F)E) GO TO 5 ONTINUE F(CSTPAB.GE.BIG) GO TO 5
DATETPAV SVT=SAVT TBS=BSTK KKRT TRY TRY TRY TRY TRY TRY TRY TRY TRY T
CONTINUE  00 7 I=1.45  00 13 K=1.7  00 01 2 -1.110  01 13 H=1.7  01 13 K=1.7
CONTINUE  K=1N0  CD=CV0 (1)  CD=CV (1)  FK (1)  FK (1)
CONTINUE  K=TRAK(I)  KK=7  KK=7  CK=7  ON P J=1,7
THK (J) = THK (J) = TIT+1K ONTINUE KET ALL GIVI (THK,AKAY,AKY+TP,KK,7) FRK (I) = TP
CONTINUE W=6 W=1E(W-1000) AKY WRITE(W-2000) (TRKK(I).I=1.LS) WRITE(W-3000) TBS.PAVI.SVI WRITE(W-4000) AKEFI ELUAN

			15							127														;	6							2					*	157		
PAGE		158	9,							123	;	147							144						85.0	57	163					2.128	60			:	901	152		
13.54.00		153	DEF INED	165					134	118	č	DEF INFO	23			57			67						20.5	DEFINED	141					110	DEF INED	20155			104	146		
11/20/60		139	96	55	162			44	66	115		DEFINED	DEFINED		126	DEFINED	120	120	DEFINED	125	125		100		24.2	163	101					643	140	20144	154	142	18	138		
450		18	55	51	158			DEF INED	DEFINED	112		115	148	?	DEF INED	147	117	DEFINED	148	122	DEF INED		DEFINED		202	150	81					45	143	76	143	DEF INED	22.	100		144
FTN 4.6+420		2	20	94	97.1	2.126		06	211	106	102	106	70.	57	134	19	116	126	70	121	126		131		2.50	151	75	2*100				14	60:	111	83	149	0 .	105		19
		e	25	4	52	9	-	81	104	104	DEFINED	2 17	5	12	133	<u>.</u>	10	10	3	15	9 :	12	00	18	2020	147	**	•	51	19	1	3	90	2067	99	144	19:	0 0 0	15	19
)=+/ TRACE		HEFS	DEF INED RFFS	REFS	DEFINED	REFS	REFS	REFS	REFS	REFS	137	REFS	266	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	HEP S	102	26	REFS	REF S	REFS	REFS	REFS	NET S	REFS	DEFINED	REFS	REFS	86	REFS	REFS
OPT=0 ROUND=+/ TRACE	ICES	HELOCATION	AKRI K	ABLK3	AKB! K	ARBK	LCY		X INX					MIXBLK		150	DRNALK	DRNBLK		RL1	150	K.	BSALK	TSV				BSBLK	RODI OD	RODLOD	BLOCKD	ABLK3	0,000	BLUCKU					RL1	TYPBK
74/74	MAP (R=3) REFERENCES 146	RELC	ABBAY	ARMAY								ARRAY	ADOA	ARRAY		ABBAY	-		ARRAY										AKKA			ARKAY								
E BTCT	REFERENCE DEF LINE	TYP	DF AI	REAL	14 30	PEAL	PEAL	REAL	PEAL	PEAL		REAL	DEAL	PEAL	PEAL	PEAL	PFAL	PEAL	PEAL	PEAL	PEAL	PEAL	REAL	PEAL	INIEGEN			INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TATEGER	INTEGER		INTEGER	INTEGEN		INTEGER	INTEGER
SUBROUTINE BTC.	ENTRY POINTS	ARTABLES SN	AKEE	AKEFT	,	AREA	AXA	AXXK	BASE	9STK		91	200	COVRGD	CSTPAB	COTPRCE	DRAIN	DANCST	DUM	EARTHWK	EACOST	FACTOR	FDE	FILPACE				IBTE	105	108	IFLEXNA	TIMSAI	1016044	1		× 1	**		3 X	I
	ENTRY	VARIABLES	•	00		0	0	770	57.	772		1027	1663	310	111	1405	-	• •	1431	~	7	9	-	2,3	10			0	2	0	~	21.	**	765		1002	79/		-	00

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PAGE	<b>9</b>	25 33 153 115 58 58 163
13.54.00	<u>3</u>	24 32 139 155 114 112 06F INED 153
71/20/60	141 62 62 135 107 50 137 06F 149	DEFINED 31 87 149 112 108 163 1/0 REFS
• 450	60 80 40 0EFINED DEFINED DEFINED 136 127 DEFINED 115 115	144 30 76 151 151 108 151 91 161 161 153
FTN 4.6.420	56 63 57 57 115 115 115 1164 1106 1106	67 74 71 71 159 159 107 135 61 76 76 76 76 76
	119	28 28 155 155 106 17 17 17 17 17 11 11 11 11
D=+/ TRACE		OETINGS SETS SEEDS OF
OPT=0 ROUND=*/ TRACE	RELOCATION LCY DOOD DOOD TSV NBLK NBLK NBLK NBLK NBLK NBLK NBLK NBLK	ARRAY THRBR ARRAY ARRAY ARRAY ARRAY ARRAY CCY ARRAY CCY CR CCY CCY CCY CCY CCY CCY CCY CCY
74/74	ARRAY ARRAY ARRAY ARRAY	ARKAY ARRAY ARRAY ARRAY ARRAY ARRAY ARRAY ARRAY
INE BTCT	NS TYPE INTEGER INTEGE	MEAL PEAL PEAL PEAL PEAL PEAL PEAL PEAL P
SURROUTINE	CONTROL OF STREET	THE
	A	1005 THE 100

•	158			
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13.54.00	149			
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FTN 4.6.420	4			NOT INNER
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	2	102	133	T REFS
=*/ TRACE	70	REFERENCES 108 94	95 111 47 119 124	PROPERTIES INSTACK OPT EXT OPT INSTACK EXT
OPT=0 ROUND=#/ TRACE	REFERENCES 7 90 118 123 61 80	DEF LINE	α	165 148 148 178 119 119 143
74/74	ARGS 1 LIBPARY 2 2 2 2 5 5 3 3	ARGS 1 INTRIN 1 INTRIN	0E L INE 277 287 156 156 156 156 156 156 156 156	FROM-10 45 46 49 53 66 72 66 77 75 77 91 140
SUBROUTINE BICT	ALOGIO REAL COVSK COVSK COVSK EXCOST3 GINT RODTHK SERCST	FUNCTIONS TYPE AINT REAL FLOAT REAL	11 LABELS  1	
8	EXTERNALS CO CO DRI FX FX FX FX FX FX FX FX FX FX FX FX FX	INLINE F	2	

PAGE								
13.54.00		11 816 (1)	2 IFLEXNA(1)	2 TRY (20) 24 XCBR (1)	200 COVRGD (200) 2 NPTO (1) 5 NODQ (1)	2 EARTHWK(1) 2 10f (1)	2 PSTEP (1) 5 NERTH (1)	
09/02/77 13.54.00		п	~	2 2	200	~ ~	2.0	
FTN 4.6+420	EXT REFS NOT INNER	10 IFSWIT (10) 10 PAVT (1) 13 AKY (1)	960	1 FDE (1) 1 DRAIN (1) 1 YK (1) 23 LS (1)	100 STOREZ (100) 1 NOHO (1) 4 NYQ (1) 7 XK (1)	1 K4 (1) 6 FACTOR (1) 1 LZ (1) 20 TRKK (20)	ERCOST	
OPT=0 ROUND=+/ TRACE	LENGTH PROPERTIES 308 OPT 118 INSTACK	(10)	0 PVFLX (1) 3 PVFLX (1) 3 PVFCDNA(1)	18TE (1) MNT (1) ORNCST (1) AXK (1) FAC (1)	25 XSTR (1) 0 STORE1 (100) 1 NOGO (1) 3 NXO (1) 6 NOGO (1)	See 28	CE (1)	8 819 8 555
74/74	FROM-TO 142 150 143 145 154 156	MEMBERS						14638 TH 10538
SUBROUTINE BICT	EL INDEX	CKS LENGTH 20 20 LK 14	CKO	86k 2-2	•	63 75 100 100 100 100 100 100 100 100 100 10		ATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH
SUBI	426 13 426 13 430 12 467 8	COMMON BLOCKS ABLK3 AKBLK	RLOCKD	ASBLA DON LCY	HIXBLK N9LK	PL1 PC1 THKBK	TSV	STATISTICS PROGRAM L CM LABELE

PAGE					-6	9.			
13.54.00				115 6 91	DEF INED 15	21			
09/02/77 13.54.00	75 15			0EFINED 12 0EFINED 7+17	19	DEFINED			
1450	XISTENT C			12 12 19 19 19 19 19 19 19 19 19 19 19 19 19	20 20 12 9	DEFINED 21 1			
FTN 4.6+420	- PAR (J-2)			3,17	DEFINED DEFINED 11	21 3*17 DEFINED			
	SERCST-CAL			2.012	222.0	22 22			
=+/ TRACE	(10-2) BROUTINE 9			REFS REFS REFS REFS	REFS REFS REFS REFS	REFS REFS REFS			REFERENCES
OPT=0 ROUND=*/ TRACE	SUBROUTINE SERCST(N.P.SYC) DIMENSION C(10) PAR(10) COMMON /CSTBK/ CCCST(\$0.10.2) FORMATIC/" **STOP FROM SUBROUTINE SERCST-CALL FOR NONEXISTENT COST FORMATIC/" **STOP FROM SUBROUTINE SERCST-CALL FOR NONEXISTENT COST TO ATA! NUM = INT(CCCST(N.1.1) **1) **2 If (NUM * FQ.2) WHIFE (8.100) 10 1 1 2 - NUM 11 - CCCST(N.1.2) 15 (NUM * EQ.2) STOP 3321 16 (NUM * EQ.2) STOP 3321 16 (NUM * EQ.2) STOP 3321 17 (NUM * EQ.2) STOP 3321 18 (NUM * EQ.2) STOP 3321 18 (NUM * EQ.2) STOP 3321 18 (NUM * EQ.2) STOP 3221 18 (NUM * EQ.2) STOP 3221 19 (NUM * EQ.2) STOP 3221 10 (NUM * EQ		ENCES	RELOCATION CSTBK	f. P.	å å	WRITES	REFERENCES 21	DEF LINE
74/74	SUBROUTINE SERCST(N DIMENSION C(10), PAR COMMON / CSTBK / CCCS COMMON / CSTBK / CCCS FORWAT (//) **STOP FI DATA!) NUM=INT (CCCST(N-1-1) If (NUM-E0.2) STOP 3 DO 1 1=2.NUM J=1-1 C(J) = CCCST(N-1-2) CONTINUE L=NUM-1 C(J) = (101-PAR(J-2)) C(J) = (101-PAR(J-2)) L=NUM J=J+1 C(J) = (101-PAR(J-2)) R=RIURN END	MAP (R=3)	REFERENCES 72	REL ARRAY ARRAY		ARRAY		ARGS	AHGS 1 INTHIN
E SENCST	SURGO DIPEN DIPEN DOME DOME DOME DOME DOME DOME DOME DOME	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	PEAL PEAL PEAL INTEGER INTEGER	INTEGER INTEGER INTEGER INTEGER	PEAL PEAL PEAL	MODE	TYPE	TYPE
SUBROUTINE SERCST	1 5 00 5 5 5	SYMBOLIC	ENTRY POINTS	VARIABLES SN 145 C 0 CCCST 141 1	1443 0 NUM	157 PAR 0 SYC	FILE NAMES TAPEB	EXTERNALS 61NT	INLINE FUNCTIONS

09/02/77 13.54.00

FTN 4.6.420

2028

STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH

09/02/77 13.54.00

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	•	IF (KAPR.NE.0) WRITE(3) AREA!				
9.0						
	•	\$10=(d1)1\$10		,		
		TE (VI . GT . O . O . ET ! NET - ET ! I NET - VI				
		IF (VL.LT.n.0) CUTNET=CUTNET+VL				
69		IF (POINT-LT-SEGEND) GO TO 2				
		CALL ERROR (99)				
		CALL ERROR(100)				
;		ENDFILE 2				
0/		IF (IPLOT.NE.0) CALL LPLOT				
	*	CALL PRICE				
		IF (EARTHWK.EU.2) CALL ZPRICE				
26	:	60 10 1				
	=	GO TO 14				
	12	KAPK=KAPK+1				
		KAPRCNT=KAPR				
		CALL ZONE (KAPR)				
0.8	•	50 10 13				
	0	60 TO 11				
	10	IP=100				
		1F (KAPR.NE.0) GO TO 7				
85		IF (IPLOT.NE.0) CALL LPLOT				
		THE TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN				
		60 TO 3				
	1	IP=I				
06		60 10 3				
	100	FORMAT(1H1//* SEGMENT DISPLAY RUNS FROM*, F15.0, *TO*, F15.0 //	0.*TO*,F15.0 //			
		1* PRISM NO.*.117.*DIST. FROM SEG.*.138.*STEP SIZE*.157.*END AREA*	SIZE*, TS7, *END AR	EA.		
		3*(50, YDS.) 9.178.4 (Cu. YDS) 4.199.4 (Cu. YDS.)	TOUTON (LEEL)			
95	101	FORMAT (1x.15.4x.5F20.0)				
	-	CONTINUE				
		END				
SYMBOLI	C REFERE	SYMBOLIC REFERENCE MAP (R=3)				
TRY POINTS	DEF LINE	LINE REFERENCES				

6						;	21																		96												26				87									
PAGE		89				,	52																54		5.0	5									89		51			44	24	87								
13.54.00		4.7		79		20.000	DEL INED								63					29	40		23		55	DET INCO								4 4	7		64			45	36	65								
11/20/60		DEFINED		27		;	10								27					19	Ç.		DEF INED		140	102	2						,	, v	94		777			35	35	2*43								
• 450		53	•	DEF INED		29	95	13	?						DEF INED	32				900	2 4	15	95		38		2				17	17	0567100	DEFINED	45		43			36	34	2.33	45	14						
FTN 4.6.420		67	3	49		UEF INEU	DEFINED	71							6	DEFINED				60	102	DEFINED	24		28	DEFINED			75		DEFINED	DEF INED	4.7	14	11	44	39		2.32	2432	62	62	34	DEF INED						
		8 4	יט ר	S	* 1	2 0	ה ר	0	S	2	S	3	o 1	nı	n 4	2+33	0	S	0 6	2 5	, ~	S	36	0 .	116	13	. 0	6	=	1	S I	v. n	36	36	5+43	45	4 (	<b>3</b>	'n	S	S	2	2	S.	0	n 4		2	2	0
OPT=0 ROUND=#/ TRACE		REFS	REFS	REFS	KEPS	2550	2665	REFS	REFS	REFS	REFS	REFS	REFS	2 2 2 2 2	RFFS	REFS	REFS	REFS	2 1 1 2 2	DEFINED	REFS	REFS	REFS	REFS	REFS 75	REFS	REFS	REFS	AEFS	KEFS	REFS	BFFG	0666	REFS	REFS	DEF INED	REFS	DEFE	REFS	REFS	REFS	REFS	REFS	REFS	S LE S	2550	REFS	REFS	REFS	REFS
0PT=0 RO	RELOCATION	,,	' '	, ,	150	2013	PLOTS	RL1	' '	11	' '	TSV	, K.		TSV		RLI	//	140.0	2002	PLOTS	,,		TWPL		ACNT	RL1	PL1	ZONES	150							150	,,	' '	11	11	''	' '	1	Twh.	150	"	''	11	TMPL
74/74					24004		ARRAY										ARRAY															ARHAY							ARRAY	ARHAY					ADOA		ARHAY	ARRAY	ARRAY	
PROGRAM EARTH	3dAL N	PEAL	PEAL	PEAL	DEAL	PFAI	DE AL	REAL	REAL	DEAL	REAL	HE AL	DEAL	DE AL	REAL	REAL	INTEGER	INTEGED	INTEGED	130711	TNTEGER	INTEGER	INTEGER	INTEGER	INICOCK	INTEGER	INTEGER	INTEGER	INTEGER	TATEGER	TATEGER	REAL	REAL	PE AL	PEAL	17 30	AC AL	PEAL	PEAL	REAL	PEAL	PEAL	PEAL	PEAL.	DEAL	DEAL	PEAL	PEAL	PEAL	PEAL
PROGR	SES	COSPGL	CUTCOS	CUINET	1000	015	1510	FAOTHWI	ECOST	HWIT	ELIMLO	EACUST	FILCOS	FILLNE	FILPRCE	HYPGL	TOENT	TAID	0		IPLOT	MOGI	ISCNI	JACK		KAPRCNT	¥ *	47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200	ON LA	PGL	PGLA	979d	POINT	00150	23157	RELAREA	PLINE	RUNS	SEGREG	SEGEND	SINPOL	773167	1910	THEK	TLSTART	TLSTOP	dat	T#OCL
	VARIAR	515	10070	10067	144	506	~	~	10072	10073	10074	- •	1001	10064	3	510	e (	~ <	-	•	0	221	204	503	500	0	-	0	011	4	50	67	511	512	514	•		99	•									10064		v

	25						
3.66	98						
	DEFINED						PSTEP (1) NERTH (1) IEXTPAP(1) SPSTEP (1) TWD (40) RELAME A(1) HOW (1) TLSTOP (2) CUTCOST(1) ELIMHI (1)
%	3	696	;			~	5 10 10 145 145 145 145 145 145
25	200	20 20					
20	64 55	39 HOTION HOTION	80			61	EMCOST (1) CUTPRCE (1) SEGEND (1) SEGEND (1) COSPGL (1) NPGL (1) WHERE (50) CLTSART(2) ECOST (1)
39	1,5 39	30 57 58	6				533 611 611 633 6414 64151 64151
REFS	OEFINED REFS REFS REFS	28 40 41		REFERENCES 33	90 90 97 85 56 56 56 56 56 56 56 56 56 56 56 56 56	ENGTH)	666 600 600 600 600 600 600 600 600 600
LOCATION	ZONES	WRITES WRITES WRITES	REFERENCES 21 21 18 70 72 34 35 79	DEF LINE		0 IPLOT (1)	THOSE FILPRCE SEGBEG RUNS SINPGL NIMP PGL TER FILCOST
RE	ARRAY		ARGS 1 0 0 1 LIRRA	ARGS 1 INTR	DEF LI 45 43 37 37 43 43 43 43 43 43 43 43 43 43 43 43 43	MEMBERS -	2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
N TYPE	PEAL PEAL REAL	MODE FMT UNFMT	TYPE REAL REAL REAL	S TYPE	::::	LENGTH 202	4157
VARIABLES SA 505 VL	507 VOL 137 WHERE 0 ZONSTEP	FILE NAVES TAPE1 TAPE2 TAPE3	EXTERNALS FRUCH LLPLOT PRICE SOAT TERAREA TMPAREA TMPAREA ZONE	INLINE FUNCTIONS	STATEMENT LABELS 317 1 122 2 211 3 47 4 114 5 206 6 314 7 2074 8 300 10 257 11 264 12 256 12 256 12 264 12 264 12 264 12 264 12 264 12 264 13 260 6	COMMON BLOCKS	154
	SN TYPE RELOCATION REFS 39 50 52 56 2061	SN TYPE RELOCATION REFS 39 50 52 56 2*63 2*64  REAL DEFINED 24 49 50 50 0FINED 26  REFS 39 52 56 62 DEFINED 26  STEP REAL ARRAY ZONES REFS 11	SN TYPE RELOCATION REFS 39 50 52 56 2*63 2*64  PEAL DEFINED 24 49 50 50 2*64  PEAL ARRAY / REFS 39 52 56 62 DEFINED 26  REAL ARRAY ZONES REFS 11  MODE FMT WRITES 29 30 39 56 67  UNFMT WRITES 40 57 HOTION 19 69  LUNFMT WRITES 41 58 HOTION 20 81	SN TYPE         RELOCATION         REFS         39         50         52         56         2*64           PEAL         DEFINED         24         49         50         50         2*64           PEAL         ARRAY         ZONES         REFS         5         5         6         DEFINED         2*64           REAL         ARRAY         ZONES         REFS         13         5         6         6         DEFINED         2*6           PRAL         ARRAY         ZONES         REFS         11         3         6         6         6         DEFINED         2*6           PRAL         ARRAY         ZONES         REFS         11         5         MOTION         19         69         7         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10	SN TYPE	SN TYPE  RELOCATION  REFS  DE AL  REFS  DE FINED  SO S	SN TYPE  RELOCATION  REFS  DEFINED  REFS  REF

PAGE 18 APRSTR (27) 73 APTOT (1) 2 EARTHWK(1) 2 TWOCL (1) 09/02/77 13.54.00 FTN 4.6.420 1 K4 (1) 6 FACTOR (1) 1 SWID (1) 9 APWID (9) 72 NAPR (1) 74/74 OPT=0 ROUND=#/ TRACE MEMBERS - BIAS NAME (LENGTH)

0 R7 (1)
3 IDENT (3)
0 IND (1)
3 JACK (1)
0 ZONSTEP (9)
45 APPEND (27)
0 KAPHCNT (1) 334 294 4157 5168 4469 100758 STATISTICS
PROGRAY LENGTH
CM LARELED COMMON LENGTH
CM BLANK COMMON LENGTH PROGRAM EARTH COMMON PLOCKS LENGTH ZONES TMPL ACNT

s

	FUNCTION	FUNCTION TERAREA	74/74		OPT=0 ROUND=+/ TRACE	TRACE	FTN 4.6-420	11/20/60	09/02/77 13.54.00
-		FUNC	FUNCTION TEMAREA (PGLA, PGLB)	AREA (PGL	A,PGLB)				
		1TMP (	20.2) .NT	P.NPGL.	VELAREA .	OGL (20.2) . WHERE	CUMMON SEVERES SEGENDILE RIMAP NONS (3) NONE (3) SESTIET SIMPOLICOSPOLE THE (20,2) NITH NPGLINE LAREA PGL (20,2) NHERE (50) IROM TER (50,40.2)	::	
5		2TLSTART 3ELIMLO	49T(2),TL LO	.STOP (2)	FILLNET	, CUTNET, CUTCOST,	2TLSTART(2),TLSTOP(2),FILLNET,CUTNET,CUTCOST,FILCOST,ECOST,ELIMMI. 3ELIMLO	•	
		COMM	COMMON / TMPL/ IND. SWID. TWOCL. JACK	VIND.SM	ID. TWOCL	JACK .			
		TSTR	TSTRT=TMP (1.1)	2					
		AREA=0.	=0.						
		TEND	TEND=TMP (NTMP.1)	0.10					
10		CIAS	SWID=A85 ( (TEND-15THT) /3)	LATST-ON	1/3)				
		APO=	APO=-COSPGL . TSTRT . PGLA	ISTRT + PG	LA				
		=0d8	BPO=SINPGL *TSTRT +PGLB	STRT+PGL	9				
		EV0=	EVO=ELEV (APO. BPO)	. BPO)					
		1 CALL	CALL NXTPNT (APO, RPO, STEP)	APO. HPO.	STEP)				
15		IF (T	STRT+STE	P.GT.TEN	D) STEP=T	IF (TSTRT+STEP.GT.TEND) STEP=TEND-TSTRT			
		TSTR	ISTRT=TSTRT+STEP	STEP					
		AP=-	AP=-COSPGL *TSTRT+PGLA	STRI+PGL	4				
		848	BP=SINPGL + TSTRT + PGLB	TRT + PGLB					
		EV=E	EV=ELFV (AP.8P)	6					
20		AREA	ARE 4=AREA+ ( (EV+EVO) /2.) *STEP	EV+EVO)/	2.) *STEP				
		AP0=AP	AP						
		d8=0d8	96						
		EVO=EV	E۷						
		IF (T	IF (TSTRT.LT.TEND) GO TO	TEND) GO	10 1				
\$		TERA	TERAKEA=AREA						
		RETURN	D'A						
		UNU							

		17	11	•	18	12							19	23						
		DEFINED	DEF INED	DEFINED	DEF INEO	DEF INED	17						DEFINED	13						
		21	7.	25	22	14	=						23	DEFINED						
		19	13	20	19	13	2	2	2	~	2	2	20	20	2	~	2	9	2	9
		REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS
REFERENCES	RELOCATION						''	"	"	''	11	11			''	11	''	TMPL	''	TMPL
DEF LINE	TYPE	PEAL	PEAL	REAL	PEAL	PEAL	REAL	PEAL	PEAL	PEAL	REAL	DE AL	PEAL	DEAL	REAL	PEAL	INTEGER	INTEGER	INTEGER	INTEGER
NTRY POINTS 5 TERAREA	VARIANLES SN	40	0 d d	AREA	90	000	COSPGL	CUTCOST	CUTNET	FCOST	ELIMHI	ELIMLO	>	E V0	FILCOST	FILLNET	IEXTRAP	IND	INOM	JACK
ENTRY	VARIAN	131	125	123	132	126	13	10070	10047	10672	10073	10074	133	127	1001	10065	2	0	221	3

20 20 22

SYMBOLIC REFERENCE MAP (R=3)

1 F (18FG.EO.0) GO TO 10

CALL SEAUCH (18EG.B.HESSB.MORER)
CALL FEAUCH (18D0.B.LESSE.MORE)
REG-01NT (18G.LESSE.MORE)
END-01NT (18G.LESSE.MORE)
END-01NT (18G.LESSE.MORE)
FLEVA (A. WERE (18EG.) / (WHERE (18D0. - WHERE (18EG.)) * (END-8EG.) * (BEC) / (WHERE (18D0. - WHERE (18EG.)) * (END-8EG.) * (BEC) / (BEC) /

IEND=IEND+1 60 TO 3

IREG=1-1

~

20

IENO=I

40 CALL EPROP (31)
IF (REG.GE.END)GO TO 41
IF (END.GT.ELIMI)GO TO 42
FLEV=END
PETUFY

35

4] IF (46.67.ELIMHI) GO TO 43
ELEV-HEG
RETURN
43 IF (18FG.MOREB.2).GT.TER (18EG.LESSB.2)) GO TO
ELEV-TEH (18EG.LESSB.2)

1

AETURN
42 IF (TER (IEND, MOREE, 2), 6T, TER (IEND, LESSE, 2))60 TO
ELEVATER (IEND, LESSE, 2)
FETURN
65 EFTURN
65 EFT

57

ELEV=TER (TBEG.MOREB.2)

44

RETIUM

04

45 ELEV=TEW(TEND,MOREE,2)
 RFTUM+1
 CALL ERMOP (32)
 IF (HEG,LE,END)GO TO 51
 FEND FORD TELEMEND TO 52

20

IF (TER (18EG.LESSB.2).LE.TER (18EG.MOREB.2))GO TO 54

IF (HEG.LT.ELIMLO) GO TO 53 ELEV=HEG

21

55

53

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2									
PAGE									
13.54.00									
09/02/77 13.54.00									
FTN 4.6.420		1)60 10 55			19		1		
74/74 OPT=0 ROUND=*/ TRACE	ELEV=TER(THEG.MOREB.2) Return Peturate(theG.Lessb.2) Peturate	IF (TER (IEND, MOREE, 2), LT. TER (IEND, LESSE, 2)) GO TO SS ELEV = TEM (IEND, LESSE, 2) RETINEN	RETURNINGREE,2) RETURNINGREE,2) CALL SEARCH(1.8.LESS,MORE) CEL SEARCH(1.0.LESS,MORE) TETRIBOCKT NE. A. OFTILD	IF (ELEV. GE.EL) MH1) GO TO 40 IF (ELEV. LE.EL) MH0) GO TO 70 RETURN	CALL FRANDE 131) IF(TEX(ILESS.2).GE.TER(I,MORE,2))GO TO 61 EE(V=TEX(I,MORE,2) RETURN	ELEV=TER(1,LESS,2) RETURN CALL ERWOR(32)	IF (TFR(I,LESS,2),LE,TER(I,MORE,2),GO TO 71 ELEV=TER(I,MORE,2) RETURN	ELEV=TEH(I.LESS.2) RETURN	HEG=IROW-1 IEND=IROW 50 TO 3 IND
FUNCTION ELEV	ELEV=1E RETJAN S4 ELEV=TE PFTURN		SS ELEVETE PETURA SO CALL SE ELEVED			A1 ELEV=TE PETURN 70 CALL EF		71 ELEV=TE RETURN	
NO.	09		6	0.	22		000		\$6
								2	280

ENTRY	ENTRY POINTS 5 ELEV	DEF LINE	REFERENCES		38	3	64		87	53	
			29 65	40	99	69	72		78	85	
VARIABLES		SN TYPE	HELOCATION								
•	4	PEAL	f.P.	REFS	10	11	56		-		
0	Œ	PEAL	f.P.	REFS	25	23	54		67	89	
				DEF INED	1						
454	PEG	REAL		REFS	92.2	32	36		20	36	
				DEFINED	54						
13		REAL	''	REFS	~						
10070		PEAL	''	REFS	2						
10067		PEAL	''	REFS	2						
10012	ECOST	PEAL	,,	REFS	2						
444		PEAL		REFS	88	62	10	11	DEFINED	56	
				37	0,4	45	45	47	52	55	•
				9	63	9	68	75	77	81	
10073	FLIMHI	PEAL	''	REFS	2	28	33	36	10		
10074		PEAL	,,,	RFFC		20	ัช	75	7.1		

\$ 2

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SYMBOLIC REFERENCE MAP (R=3)

9	3	*	2.74		45	45	98																5066	65									
PAGE	7	;								83	09	63	100	9,4	3								24	63	93								
13.54.00	ď	3	19	DEFINED	2•39	26	11			90	57	29	0 0 0	200	;								0,	2002	18								
11/20/60	72	;		93					00	11	0,4	545	5 3	7.7									5.39	9	2.80			3.26		2			
450	٤	3	19	81	6*24 0561MED	23	9	15	0 0	12	39	41	2 0	44									6*25	58	11			=		5			
FTN 4.6.420	33	;	=	2.80	25	17	. 63	13	7.0	4.68	42.4	4.55	2408	2000									92.9	2*57	75			01		6,	,		
	*	. K ~	701	11	212	16	5462	~ ~	<b>u</b> 4	29	22	23	200	3 5	2	~	~ ~	۰ ۸	~	~	~	~ ~	۰ م	47	2.74	~	~ ~	v ~		31	,		
D=+/ TRACE	PFFS	DEF INED REFS	REFS	75	REFS	REFS	47	REFS	DEFC	REFS	REFS	REFS	KET S	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	45	6*68	REFS	REFS	REFS		15 23	REFERENCES	88. 89.	
74/74 OPT=0 ROUND=#/ TRACE	RELOCATION	**	11						ACNT						,,	, ,			' '	''	11					' '			REFERENCES	13	DEF LINE	REFERENCES 9 10 18 21 11 11 11 11 11 11 11 11 11 11 11 11	
74/74	REL																AKHAK	ARRAY	ARHAY				ARRAY			ARRAY	ARRAY	ARRAY	ARGS	-4	ARGS	DEF LINE 12 19 22 22 26 15 67 67 85	164644
N ELEV	TYPE	REAL	PEAL INTEGER		INTEGER	INTEGER		INTEGER	TNIFGER	INTEGER	INTEGER	INTEGER	TATEGER	INTEGER	INTEGER	INTEGER	PEAL	REAL	PEAL	PEAL	REAL	REAL	PEAL			PEAL	PEAL	REAL	TYPE		TYPE		
FUNCTION ELEV	END SN	FILCOST	FILLNET		1850	IEND		TROW	KAPRCNT	LESS	LESSB	LESSE	FORE B	MOREE	NPGL	ATMP.	PELAPEA	RUNE	SNING	SEGHEG	SEGEND	SPSTEP	TER			TLSTART	TESTOP	WHERE	STI	ERROR SEARCH	FUNCTIONS	STATEMENT LABELS 0 1 50 2 57 2 37 10 307 20	2,7,2,1,2
	VARIABLES		10056		011	177		221				452		453	9	79	6 9	•	3	0		71				10062	10001	137	EXTERNALS		INLINE	STATEME 50 57 307 307	155 171 171 171 171

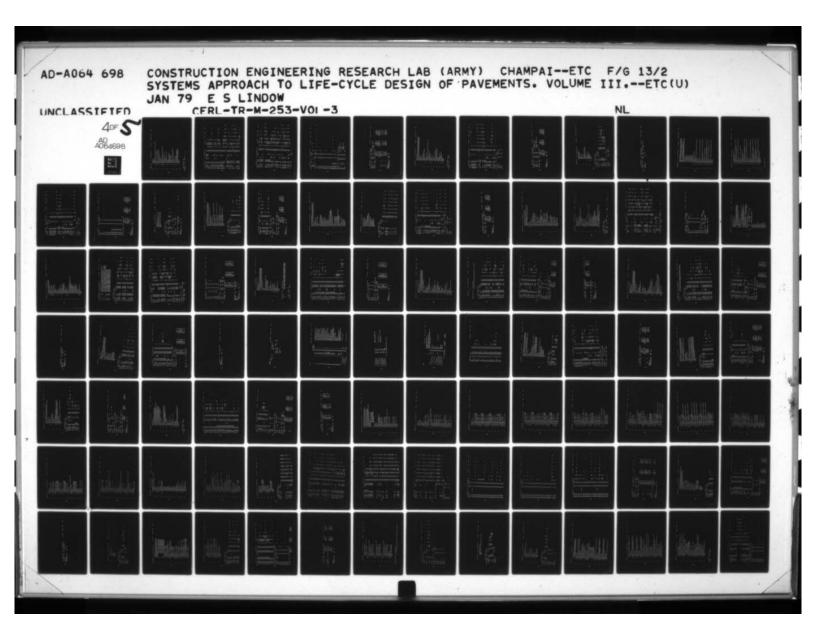
	d																								
	09/02/77 13.54.00														9 SPSTEP (1)	12 TMP (40)	54 PELAREA(1)	145 IPOW (1)	4148 TLSTOP (2)	4155 CUICOST(1)	113 CC1441 113				
	LIN 4.6+420										5116			1 SEGEND (1)	6 RUNE (3)	53 NPG (1)	95 WHERE (50)	4146 TLSTAPT(2)	4151 CUTNET (1)	4154 ECOST (1)					
4 OPT=0 ROUND=+/ TRACE	LINE REFERENCES				57				80		LENGTH PROPERTIES		MEMBERS - BIAS NAME (LENGTH)	3 KINS (3)	10 SINPGL (1)	52 NTMP (1)	146 150	SO FILENET (4000)	53 F1 COST (1)	4156 ELIMLO (1)	0 KAPHCNT(1)		В 309		4157
EV 74/74	DEF LINE	57	n •c	57	9	45	-		A33	2. 1003								7	4	4			859 ₇	TH 100750	
FUNCTION ELEV	Ŧ	235 51		24.3 53		376		362 70	400 71	LOOPS LABEL INDEX	•	COMMON BLOCKS	// LENGIH							1000	1	STATISTICS	CA LABEL DO COMON PERCEN	CM BLANK COMMON LENGTH	

	RUS	SURPOUTINE SEARCH (LROW, B. LESS, MORE)	ARCHILRON	1,8.LESS.	MORE)					
	MOD	MON SEGREG.	SEGEND.	EXTRAP. F	UNS (3) , RUNE	(3) SP	COMMON SEGREG. SEGEND. IEXTRAP. RUNS (3), RUNE (3), SPSTEP, SINPGL, COSPGL,	:OSPGL,		
	TAMP	120.21 .NTM	P. NPGL . RE	LAREA.PC	1 (20.2) . WHE	RE (50)	1 MP 120.20.21 .NTMP .NPGL .REL AREA.PGL (20.2) .WHERE (50) . IROW. TER (50.40.2) .	,40.51,		
	2115	TART (2) . TI	STOP (2) .F	TILL NET.C	UTNET . CUTCO	STOFIL	211 START (2) . IL STOP (2) . FILL NET . CUTCOST . FILCOST . ECOST . ELIMHI.	IMHI.		
V	3611	3FI 1MI 0								
,	XXX	KKNT=0								
	00	50 10 K=1.2								
		7000	**	1000						
		IT (TEM (LAUMAKAI) ANE . 10E 50) ANNIANNIA	. 1 NE . 1	JESON KAN	T. INNY					
	10 CON	CONTINUE								
10	16	IF (KKNT, NE. 2) CALL ERROR (3)	CALL ERF	20R(3)						
:	00	00 20 121.40								
	2	1 100 1100	0 10 11	1021 0111	W. 11. 1. 100 1	TO	503 60 70 101			
	-	TER (LROW . I	9.19.11.	AND. IER	LACK TOTAL	100	IF (TER (LROW-1-1) -61 -8-AND-1ER (LROW-1-1) -NE- 10E367 60 10 100			
	14	F (TER (LROW . I . I) . EQ . B) 60 TO 300	.11 .E0.B	60 10	000					
	20 CON	CONTINIE								
15		IF (IEXTHAP .NE . 0) CALL ERROR(2)	.0) CALL	ERROR (2)						
	00	00 30 1=1-40								
	1	1-10-1-1								
		1.7-0								
		(F (TER (LROM. J. 1) .NE. 10E50) 60 10 600	.1) .NE . I	05 00 CO	000					
	30 00	CONTINUE								
20	CAL	CALL ERHOR(3)								
	100 1F	F(1.F0.1) GO TO 200	10 200							
	2	MORE=1								
		FSS=1-1								
	PFI	PETURN								
36		IF (IF XTHAP NF .0) CALL ERROR (2)	CALL	ERROR (2						
	SOM MOR	MORE=2								
		FSS=1								
	PFT	PETIEN								
		00 0 01 00 11 3N 113	10 400							
;	2006	10 500	2							
30		005 01 00								
	600 I=J									
	8	GO TO 400								
	END	•								

SYMBOLIC	SYMBOLIC REFERENCE MAP (R=3)	(R=3)					
ENTRY POINTS	DEF LINE	REFERENCES 24 28					
VARTABLES SA	N TYPE	RELOCATION F.P.	REFS	12	13	DEF INED	-
13 COSPGL		"	REFS	~			
0070 CUTCOST		''	REFS	~			
10067 CUTNET		''	REFS	~			
0072 ECOST		,,,	REFS	~			
0073 FLIMHI		''	REFS	~			
0074 FLIPLO		''	REFS	2			
0071 FILCOST		''	REFS	~			
DOGS FILLNET		''	REFS	2			
150 1			REFS	2415	13	17	21
			DEFINED	=	16	31	
2 IEXTRAP	INTEGER	"	REFS	2	15	\$2	
721 1804		''	REFS	2			

PAGE					-																				
13.54.00			œ		DEF INED									18										JEXTRAP(1) SPSTEP (1) THP (40) RELAREA(1) TLSTOP (2) CUTCOST(1) ELIMMI (1)	
11/20/60		17	•		18									13										1444 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
450		DEFINED	DEFINED	27	2,42	:								2.12										•	
FTN 4.6.420		31	10	23	22									80					52	3				SEGEND (1) RUNE (3) COSPGL (1) NPGL (1) WHERE (50) TLSTART(2) CUTNET (1) ECOST (1)	
		60 a	0 00	~ (	<b>.</b>	~	~ ~	u ~	۸.	~	~ (	u a	٠, ٨	~	~ (	<b>.</b> .	۰ م		50	2			EXITS EXITS	11 53 53 64 64 64 64 64 64 64 64	
OPT=0 ROUND=*/ TRACE		REFS	REFS	DEFINED	DEFINED	REFS	REFS	REFS	REFS	REFS	MET S	REFS	REFS	REFS	SEE S	RFFS	REFS	9.	15	:	ences 32		PROPERTIES OPT OPT OPT	E(LENGTH) (1) (1) (1) (40) (40) (1) (1) (1) (1)	
0PT=0 RO	RELOCATION			a 0		``			11	``			11	' '			11	REFERENCES	10		E REFERENCES 11 16 17 18 21 21 29 30	18	LENGTH 118 178 138	SEGBEG SEGBEG RUNS SINPGL NTMP PGL TER FILLNET FILCOST	118
74/74	REL						ARRAY		ARRAY	ARRAY				ARRAY	>4004	ARHAY	ARHAY	ARGS	-		DEF LINE 14 14 17 18 18 18 18 18 18 18 18 18 18 18 18 18	15	FPOM-10 7 9 11 14 16 19	MEMBERS - E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1668
NE SEARCH	SN TYPE	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	PEAL	PEAL	PE AL	PEAL	PFAL	PEAL	REAL	PEAL	REAL	PEAL	PEAL	TYPE			<b>v</b>		I I I I I I I I I I I I I I I I I I I	4157	N LENGTH
SURROUTINE	BLES	151 J		O LESS		65 NPGL				3 PUNS	1 SFGFND			10062 11 CTABY			137 WHERE	EXTERNALS	ERROR		STATEMENT LABELS 0 10 0 20 0 30 103 100 115 200 116 400 121 500		22 10 + 41 20 + 65 30 +	COMMON ALOCKS	STATISTICS PROGRAM LENGTH CM BLANK COMMON
	<b>A</b>													100	100			Ex			15	-	L00PS 22 22 41 65	Ö	440

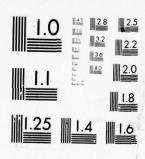
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SUBROUTINE INDUT
DIMENSION LINE (8), PGLT (3,2), TMPT (3,2), TTER (3,2), KTEST (2), TREAD (4)
DIMENSION LINE (8), PGLT (3,2), TMPT (3,2), TTER (3,2), KTEST (2), TREAD (4)
COMMON SCREES - SEGEND, IEXTRAP, RUNS (3), RUNE (13,595TEP, SINAGL, COSPGL,
TYPO, 2), NTMP, NPGL, RELAREA, PGL (20,2), WHERE (50), IROW, TER (50,40,2),
3ELSTART (2), TLSTOP (2), FILLY TOUR T, CUTCOST, FILCOST, ECOST, ELIMHI,
3ELIMLO
COMMON/PLOST, PDIST (100), CVOL (100)
COMMON / TMPL / RTAPK, EARTHWA IDENT (3), FACTOR
COMMON / TMPL / ND, SMID, TMCCL, JACK
COMMON / TMPL / ND, SMID, TMCCL, JACK
COMMON / TYPY THOK, ERCOST, PSTEP, FILPRCE, CUTPRCE, NERTH
COMMON / ZONES/ZONSTEP (9), APPRISTR (9,3), ARPREND (9,3), NAPPR, APT
                                                                                                                                                                                                                                                                                                    FORMAT("1",////////000,27H=seasssssssssssssssssss/40x,1H++
125x,1H+/40x,1H++4x,17HEARTHWORK SUMMARY,4X,1H+/40x,1H+25x,1H+/
240x,27H+ssssssssssssssssssssssss,///20x,10HINPUT DATA//)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DECODE (70.403.LINE (2)) JB. ZONSTEP (JB) . APWID (JB)
                                                                                                                                                                                                                                                                                                                                                                                                                                       101
DATA KTEST/2-6/
IPGL=IPGHRK=N0GO=ITD=ITMP=KCNT=JAKNT=JBKNT=0
IEXTHAPP=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DECODE (70.401.LINE(2))TLSTART.TLSTOP
FORMAT(7F10.0)
FORMAT(11.9x.6F10.0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DECODE (70.405.LINE (2)) RUNS, RUNE
                                                                                                                                                                                                                                                                                                                                                                      FORMAT (9410)
IF (EDF (2) .NE.0) STOP
WRITE (4.499) LINE
                                                                                                                                                                                                                                                                                                                                                          READ (2.500) LINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TER (1. J.K) = 10E50
                                                                                                                                                                                                                                                                                                                                                                                                                           FORMAT (SX. AAIN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                00 11 1=1.50
WHEPE(I)=10E50
DO 11 J=1.40
DO 11 K=1.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JAKNT=JBKNT+1
                                                                                                                                                                                                                                                                                      WRITE (4,498)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60 70 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1804=0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NOGO=1
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FIFD

10F

## AD 4064698



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-4

	NTHD = ITMP XTHP = I	
· · · · · · · · · · · · · · · · · · ·	RELAREAGO. 00 65 I=1.KTWP RELAREA=RELAREA+(THP(I.2).TMP(I.1.2))/2.*(TMP(I.1.1)-TMP(I.1)) RETURN DECODE(70.401.LINE(2))DELHI.DELLO	
TTEW(1.2) = 44 60 TO 72 DECROE (TO.4.05.LINE(2)) ((TTER(M.N).M=1.3).N=1.2) FORMATISTO 6-10X.3F10.0) DECROE (TO.4.05.LINE(2)) ((TTER(M.N).M=1.3).N=1.2) FORMATISTO 6-10X.3F10.0) IF (LINE(KKEST(J)).E0.1H ) GO TO 22 KCNT=KCNT. IF (LINE, ED.) GO TO 23 DO 21 1=1.HOW DO 21 1=1.HOW IF (HOW.GT.50) CALL ERROR(19) FER (HOW.1.2) = TTER(1.J) CONTINUE IF (HOW.67.50) CALL ERROR(19) FER (HOW.1.2) = TTER(3.J) WHERE (THOW) = TTER(3.J) WHERE (THOW) = TTER(3.J) WHERE (THOW) = TTER(3.J) HER (1.K.1).E0.10ESO) GO TO 27 CONTINUE CAL ERROR(2) FOR (1.K.1) = TTER(2.J) FER (1.K.2) = TTER(2.J) FER (1.K.2) = TTER(3.J) FER (1.K.2) = TTER(3.J)	90 05 70 1 50 05 00 10 10 40 1 4 10 10 10 10 10 10 10 10 10 10 10 10 10	
	TTE-V(1.2) = 4H  GO TO 70  DECOUGE (2) ((TTER(M+N), M=1.3), N=1.2)  FORMAT(3F10.0-10x, 3F10.0)  DO 22 J=1.2	
TER(IROW.1+1)=TTER(2.J)  TER(IROW.1+2)=TTER(3.J)  WHERE (IROW)=TTER(1.J)  GO TO 24  DO 26 K=1.40  IF (TER(I.K.1).EQ.TTER(2.J))CALL ERROR(20)  IF (TER(I.K.1).EQ.TTER(2.J))CALL ERROR(20)  GOLO 10 27  CONTINUE  GOLO 27  TER(I.K.2)=TTER(2.J)  TER(I.K.2)=TTER(3.J)  IF (ELEVH.LTTER(3.J))ELEVHI=TTER(3.J)  IF (ELEVH.LTTER(3.J))ELEVHI=TTER(3.J)  IF (ELEVH.COTTER(3.J))ELEVHI=TTER(3.J)  IF (ELEVH.COTTER(3.J))ELEVHI=TTER(3.J)  IF (ELEVH.COTTER(3.J))ELEVHI=TTER(3.J)  FOONTINUE  GONTON		
CONTINUE CALL ERWOR(21) CALL ERWOR(21) GO TO 24 TEP(I.K.1) = TTER(2.J) TEP(I.K.2) = TTER(3.J) TEP(I.K.2) = TTER(3.J) TEP(I.K.2) = TTER(3.J) TEP(I.K.2) = TTER(3.J) TEP(I.K.2) = TTER(3.J) TEP(I.K.2) = TTER(3.J) TEP(I.K.2) = TTER(3.J) CONTINUE GO TO I	TER(IROW+1+1)=TTER(2+J) TER(IROW+1+2)=TTER(3+J) WHERE(IROW)=TTER(1+J) GO TO 24 DO 26 K=1+40 IF(TER(1-K+1)-EQ-TTER(2+J))CALL_ERROR(20)	
IF (KCTY.EQ.) = ILEVAL!ELEVLQ=TTER(3.J) IF (ELEVAL.ELT.TER(3.J) ELEVAL=TTER(3.J) IF (ELEVLQ.GT.TTER(3.J) ELEVLQ=TTER(3.J) IF (ELEVLQ.GT.TTER(3.J) ELEVLQ=TTER(3.J) GONTINUE GO TO 1	IF (TER (1,K.1).EQ.10E50) GO TO 27 CONTINUE CALL EPPOR(21) GO TO 24 FOR (1,K.1) = TFER(2.J)	
	IF (KCN.EQ.)=TER(3.J) IF (KCN.EQ.)ELEVHI=ELEVLO=TTER(3.J) IF (ELEVHI.LT:TTER(3.J)ELEVHI=TTER(3.J) IF (ELEVLO.GT.TTER(3.J)ELEVLO=TTER(3.J) CONTINUE GO TO 1 END	

SYMBOLIC REFERENCE MAP (R=3)

120 HEFERENCES DEF LINE ENTRY POINTS

,		0440	<u>.</u> 1
PAGE	*	156 138 59 86	143 143 2•157 56
13.54.00	OEF INED	155 155 162 189 85 85	142 138 2•136 69 14
09/02/17	103	15 108 2°46 2°128 46 46 84 84 84 84	141 44 2*94 134 155 133 14 06FINED
•450	66 100 100 100 100 100 100 100 121 121 121	DEFINED 111 112 112 0EFINED DEFINED DEFINED DEFINED DEFINED 0EFINED 137 16	137 141 141 70 70 70 70 70 70 86
FTN 4.6.420	DEFINED	156 157 0EFINED 0EFINED 99 110 50 127 0EFINED 62 62 62 63 64	136 45 0EFINED 73 73 58 153 0EFINED 89
	111 100 100 100 100 100 100 100 100 100	111 112 103 103 103 103 103 103 103 103 103 103	2 DEFINED 73 73 73 74 74 50 74 74 84 84 68 68 68 68 68 68 68 68 68 68 68 68 68
OPT=0 ROUND=+/ TRACE	~ * * * * * * * * * * * * * * * * * * *	REFS SEES SEES SEES SEES SEES SEES SEES	METS METS DEFINED REFS REFS REFS REFS REFS REFS
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SURROUTINE SORTD

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1 2 0 2 2 6	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SUBROUTINE SORTA(AR DIMENSION ARR(20,2) IF (NUM.LE.1) RETURN LIM=LIM—1 DO 20 I=1.LIM] K=1:1 SMAL=ARR(I.1) IS=1 DO 18 J=K.LIM IF (SMALL.FG.ARR(J.1) IS=3 CON TOUE IF (IS.EQ.1) GO TO 20 DO 19 K=1.2 IF (IS.EQ.1) GO TO 20 DO 19 K=1.2 TEM=ARR(J.1) SMAL=ARR(J.1) IS=3 CON TOUE TEM=ARR(I.K) ARR(I.K) ARR(I.K) CON TOUE END	SUBROUTINE SORTALARR, NUM)  IF (NUM, LE.1) RETURN  LIMI=LIMI LIMI	0 18 ERROR (27)						
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SURROUTINE ERROR(I)  COMMON SEGREG-SEGENO, IEXTRAP, RUNS (3), RUNE (5), SPSTEP, SINPGL, COSPGL,  ITMP (20,2), NTHP NPGL, RELAREA, PGL (20,2), WHERE (50), IPOW, TER (50,40,2),  ZILSTAY (2), TLY NPONPOLZ, FILLNET, CUINET, CUTOST, FILCOST, ECOST, ELIMI,  SELIMLO  COMMON /TSV/THCK, ERCOST, PSTEP, FILLNETC, CUTPRCE, NERTH  NAMEL ISTYRUG, SEGREG, SEGREO, SEGREO, TEXTRAP, RUNS, RUNE, PSTEP, SPSTEP,  ISTNPGL, COSPGL, NTMP, NPGL, RELAREA, IROW, TLSTART, TLSTOP, TMP, PGL, WHERE  IF (1, LT, 1) 60 T0 1  IF (1, E0, 2) 60 T0 3  IF (1, E0, 2) 60 T0 4  IF (1, E0, 2) 60 T0 4  IF (1, E0, 2) 60 T0 1  IF (1, E0, 2) 60 T0 10  IF (1, E0, 2) 60 T0 20  MPITE (4, 1) 00 T0 20	GO TO 10 IF (EXTHAD, EQ.1) GO TO 12 IF (EXTHAD, EQ.1) GO TO 12 IF (EXTHAD, EQ.1) GO TO 12 FORMATICA, A POINT ON THE TEMPLATE LIES OUTSIDE OF THE RANGE OF 18RAIN DATA*) STOP STOP STOP FROM THE (4.4.1) FEITHER TO BE THE PROFILE COADS OF THE PROFILE COADS OF THE PROFILE COADS	103 FORMATISX.*DISPLAY SEGMENT IS OUT OF RANGE OF THE PROFILE GRADE LI 1NE-10 60 TO 10 6 WRITE(4.104) 104 FORMATISX.*-TERRAIN DATA OVERFLOW-*/5X.*ONLY SO ROWS MAY BE ENTER 1EDEXECUTION CONTINUING*) 5 WRITE(4.105) 105 FORMATISX.*-DUPLICATE TERRAIN' DATA FOUND*)	6 WRITE (4.106) 106 FORWAL(SX.*TERRAIN DATA OVERFLOW-*/5X.*ONLY 40 POINTS MAY BE CONT 1016 FORWAL(SX.*TERRAIN DATA OVERFLOW-*/5X.*ONLY 40 POINTS MAY BE CONT 1016 FORWAL(SX.*TERRAIN DATA OVERFLOW-*/5X.*ONLY 40 POINTS WITHIN A TERRAIN 107 FORWAL(SX.*-SYSTEM ERROR-*/5X.*TWO TERRAIN DATA ROWS AT THE SAME 106 TO 10 0 WPITE (4.108) 108 FORWAL(SX.*-SYSTEM ERROR-*/5X.**DUPLICATE POINTS WITHIN A TERRAIN
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20/60	
FTN 4.6+420	
OPT=0 ROUND=+/ TRACE	
74/74	
SUBROUTINE ERHOR	

		CO CA COLO CONT. CONT. COLO.
	54	IF (LIMHI-FG-11) 60 TO 51
90		IF (LIMHI.GT.11) RETURN
		NOTTE (4.111)
	1111	FORMATISX. * COMPUTED ELEVATION HAS REACHED MIGHEST LIMIT, ELEVATION
		1 HAS REEN HEASSIGNED, EXECUTION CONTINUING*)
		RETURN
65	51	S1 WPITE(4.113)

1111 5010
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9

		116 FORMAT("1".///" ELEVATION LIMIT VIOLATION"//)	
		ELEVATION	
1000	WHITE (4.116)	FORMAT ("1".///"	GO TO 54
	53	116	

20

4LU=LIMLU*]	56 IF (LIMLO.Eq.11) 60 TO 52
*	56 IF

		2	
		REACHED	
		HAS	
RN		ELEVATION	
IF (LIMLO.6T.11) RETURN	WRITE (4.112)	112 FORMATISX. COMPUTED ELEVATION HAS REACHED LOW	The state of the s
		112	

75

	DWEST LIMIT, ELEVATION		
	LEVATION HAS REACHED L	EXECUTION CONTINUING*)	
WRITE (4.112)	112 FORMAT (5x. COMPUTED ELEVATION HAS REACHED LOWEST LIMIT, ELEVATION	IHAS BEEN REASSIGNED. EXECUTION CONTINUING*)	DETIEN
	112		

			2000	
			114 FOPMAT (5x." LOWEST LIMIT WARNING MESSAGE NOW TERMINATED.FINAL COUN	
			MON	
			MESSAGE	
			WARNING	
			LIMIT	
			LOWEST	(*0
-		114)	× S	170
	RETURN	52 WRITE (4.114)	FORMAT (S	17 WILL FOLLOW")
		25	114	
		80		

			CHA		
			VALUE		
			INPUT . EARTHWORK		
			2		
			MISSING		
			CARD		
			DATA		
WRITE (4.116)	60 10 56	WRITE (4.102)	FORMAT (5X. * APPROACH	1NGED TO 1+1	RETURN
55		15	102		
	85				
	55 WRITE(4.116)	55 WRITE(4.116) 60 TU 56	55 WRITE(4.116) 85 GO TO 56 15 WRITE(4.102)	55 WRITE(4.116) 60 TU 56 15 WRITE(4.102) 102 FORMAT(5x.*APPROACH DATA CARD MISSING TO INPUT.EARTHWORK VALUE CMA	55 WRITE(4.116) 60 TU 56 15 WRITE(4.110?) 102 FORMAT(5X.*APPROACH DATA CARD MISSING TO INPUT.EARTHWORK VALUE CMA 1NGED TO 1+)

06	16	16 WRITE (4.115) LIMHI.LIMLO
	115	115 FORMAT (5x,"HIGHEST ELEVATION LIMIT REACHED ".14," TIMES.".10x
		1EST ELEVATION LIMIT REACHED ".14" TIMES.")
	19	19 IXCNT=LIMLO=LIMHI=0
		Nail 13d
56	50	20 IF (IXCNT.NE.0) WRITE (4.120) IXCNT

	XTRAPO				LINE*)		
	DUAL E				GRADE		
	· INDIVI				PROFILE		
	110.				8		
	RED*/5x.				TEMPLATE		
XCNT	IS OCCUR	IS RUN+)			NITTA		
12011	NOI	IN TH			POINT		
 20 IF (IXCNT.NE.0) WRITE (4,120) IXCNT	120 FORWAT (SX. * EXTRAPOLATION HAS OCCURRED * / SX. 110. * INDIVIDUAL EXTRAPO	1LATIONS HAVE OCCURED IN THIS RUN*)	PETURN	WRITE (4.109)	109 FORMAT(SX. * DUPLICATE POINT WITHIN TEMPLATE OR PROFILE GRADE LINE *)	10 WPITE (4.110) I	
20	120			0	109	01	
95					100		

01	110 FOR	INA	510	CNS	
1611011	MAT (SX ERROR	TE (4.81)G)	P 4171		
	NUMBER* . 151	WRITE (4.81)G)			

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	<b>%</b>		
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SUBROUTINE LPLOT COMMON/PLOTS/IPL MATE(II.0) FORMAT(IH).**HASS CALL STPLTI(1,0) WATE(II.1) FORMAT(20X.**DIST RETURN	E MAP (R=3		ARRAY		ARGS 7	DEF LINE 4 7	MEMBERS	
0 [	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	SN TYPE PEAL PEAL INTEGER INTEGER	MODE	TYPE	ELS FMT	LENGTH 202	STH COMMON LENG
<b>-</b> •	SYMBOL	ENTRY POINTS	VARIABLES 146 CVOL 2 DIST 1 IP 0 IPLOT	FILE NAMES TAPEII	EXTERNALS STPLT1	STATEMENT LABELS 25 10 FW 34 11 FP	COMMON ALOCKS	STATISTICS PPOGRAM LENGTH CM 1 SELED COMMON LENGTH

09/02/77 13.54.00

FTN 4.6-420

74/74 OPT=0 ROUND=#/ TRACE

SUBROUTINE LPLOT

PAGE														
13.54.00											•	10		2.23 0EF INED
11/20/60	4°.			~:							DEFINED	DEFINED	4•13	6•18
024-0	FUNCTION IMPAREA (RELDST)  COMMON SEGREG. SEGEND. IEXTRAP.RUNS (3) .RUNE (3) .SPSTEP.SIMPGL.COSPGL.  11MP (20.2) .NIMP.NPGL.HELAREA.PGL (20.2) .WHERE (50) .IROW.TER (50.40.2).  27LSTART (2) .TLSTOP (2) .FILLNET.CUTNET.CUTCOST.FILCOST.ECOST.ELIMHI.		(1.1))60 TO 2 (RELDST-PGL (NPGL.1))/(D1ST-PGL(NPGL.1))*(RUNE(3)-	INPUL.2)  OAMEA *RELAREA  (RELDST-PGL(I-1.1))*(PGL(I.1)-PGL(I-1.1))*(PGL(I.2)  L(I-1.2)	UNS (3)						4	6.19	10	4•13 24
FTN 4.6.420	3) . SPSTEP. S E (50) . IROW. I.F ILCOST.E	(2.5)) ••5)	-PGL (NPGL • 1	.1)-PGL([-1	DAMEA .MELAMEA CALL EMRAR(6) RELOST/PGL(1,1) *(PGL(1,2)-RUNS(3))*RUNS(3)	'GAKEA *KELAKEA CALL EPROR(6) PELDST/DIST*(RUNE(3)-RUNS(3))•RUNS(3) 'GAREA •RELAREA					2	11	01	- 2
GE.	\$ (3) . RUNE (20.2) . WHERE	ELTMLO DIST=SOHT ((PUNE(1)-RUNS(1)) **2*(RUNE(2)-RUNS(2)) **2) GARBATMP (NTMP,1)-TMP(1,1) IF (RELOST,01,01ST) FELOST=DIST IF (NPGL,EC,0) GO TO 4	1))/(0157-	1))/(PGL(I	• (PGL (1.2)	E (3) -RUNS (			82	~~~		2 = 2	. ~ ~ ~	15
OPT=0 ROUND=4/ TRACE	EXTRAP.RUN LAREA.PGL ( ILLNET.CUT	15(1)) ••2•( 1•1) ST=01ST	60 TO 2	-RELAREA 17-PGL (1-1.	PRORIES	RROR(6) 701ST*(RUN			\$2	REFS		REFS	REFS SFS SFS	REFS
0PT=0 R0	FUNCTION IMPAREA (RELDST) COMMON SEGREG-SEGEND IEX TMP (20.2), NIMP, NPGL-NELA ILSTART (2), TLSTOP (2), FIL	ELT#LO DIST=SONT((RUNE(1)-RUNS(1))** GAREA=TMP(NTMP,1)-TMP(1,1) IF (RELDST-GT-DIST)#ELDST=DIST IF (NPGL-RO,0)60 TO 4	10 1 1=1.NPGL FF (MELOST.LT.PGL (1.1))60 TO CONTINUE MARREA = (RELDST-PGL	INOL(NPOL.)).PDL (NPOL.)  TMPARA=TMPAPEA-GAMEA -RELAREA  RETIMN  IF (I=64.1)60 TO 3  TMPAREA= (RELDSI-PGL (I-1  I)-PGL (I-1,2)).PGL (I-1,2)	TWDANEASTWDANEA-DANEA - NELAN PRIUNN FF (MELOST.LT.O.) CALL EMROR(G) IMPANEAS	TYPAREA=TWPAREA*GAREA *RELAREA RETURN: If (MELDSI.LT.O.) CALL ERROR(6) IMPAREA= IMPAREA=TWPAREA*OAREA *RELAREA STILDA			REFERENCES 16 21	HELOCATION	::::			``
14/14	JNCTION THE DAMON SEGRE AP (20.2) .NI	NEL IMCO 01ST=SGHT ((RUNE (1)-RU 0AREA=TMP (NTMP+1)-TM 1F (RELDST-6T+01ST)+EI 1F (MPGL-EO-0) GO TO 4	DO 1 1=1.NPGL IF (MELDST.LT. CONTINUE TMPAREA=	TMPAREA=TMPAREA=0 TMPAREA=TMPAREA=0 TFTJRN TMPAREA= TMPAREA= TMPAREA=	TYPAPEA=TYP PFTUHN IF (MELOST.L	RETURNI IF (MELDST-L) TMPAREA= TMPAREA=TMP/	ENO	SYMBOLIC RFFERENCE MAP (R=3)		ž				ARRAY
FUNCTION TMPAREA	2017	20011	-	,	6	4	ũ	C RFFERENCI	DEF LINE	SN TYPE PEAL PEAL PEAL	PEAL	INTEGER	INTEGER INTEGER	PEAL
FUNCT	-	ın.	10	51	8	\$2	30	SYMBOLI	POINTS	SPGL TCOST		FILLNET I IF XTRAP	- 2 2	
									ENTRY	13 CO 10070 CU	141 10072 10074 10074	163	22,	142

~	8	ă	
PAGE	8	2	
13.54.00	2 S 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DEF INED 28	1EXTRAP(1) SPSTEP (1) SPSTEP (1) THP (40) TOW (1) TROW (2) CUTCOST(1) ELIMHI (1)
71/20/60	24 18 27 2*27	2.28	2 17 145 4148 4152 4152
	20 13 13 2*23	* *	
FTN 4.6.420	15 11 2*6 2*6	2 0 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SEGEND (1) RUNE (3) COSPGE (1) NPGE (1) WHERE (50) TLSTART(2) CUTNET (1) ECOST (1)
	DEFINED 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	EXITS 1 5 1 1 6 4 146 4 196 196 196 196 196 196 196 196 196 196
OPT=0 ROUND=*/ TRACE	######################################	89	PROPERTIES INSTACK INSTACK (1) (1) (1) (1) (40) (40) (10) (11) (11) (11) (11) (11) (11) (1
OPT=0 ROU	F.P.	REFERENCES  7	68 68 81 SEGBEG 81 SEGBEG 82 SEGBEG 83 SEGBEG 84 SEGBEG 84 SEGBEG 85 SEGBEG 86
74/74	REL ARRAY ARRAY ARRAY ARRAY ARPAY	ARRAY / ARGS RE I LIBRARY DEF LINE 17 25 26	FROM-TO L 10 12 10 12 11 15 12 15 146 4153 4156 11668
FUNCTION THPAREA	NS TYPE PEAL PEAL PEAL PEAL PEAL PEAL PEAL PE	PEAL PEAL PEAL TYPE REAL S	INDEX I LENGTH 4157
FUNCTI	RELAREA RELOST RELOST RUNE RUNS SEGBEG SEGENO SINFOL SPSTEP TESTART	14 TMP 140 TMPREA 137 WHERE EXTERNALS ERROR SORT 0 1 0 1 63 2 101 3	COMMON PLOCKS LENGTH COMMON PLOCKS LENGTH 4157 COMMON PLOCKS LENGTH COMMON LENGTH CH BLANK COMMON LENGTH
	VARIAE 66 0 0 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 THE 137 WHE EXTERNALS SOTATEMENT 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COMMON PLO

SUBROUTINE NXTPNT(a.B.STEP)

COMMON SEGHEG.SEGENO.IEXTRAP.RUNS(3).RUNE(3).SPSTEP.SINPGL.COSPGL.

ITHPICO.2).NTHP.NPGL.RELAREA.PGL(20.2).WHERE(50).IROW.TER(50.40.2).

3ELSTART(2).LLSTOP(2).FILLNET.CUTNET.CUTCOST.FILCOST.ECOST.ELIMHI.

DATA STPMINJ.0/

DO 1 I=1.ROW

IF (WHERE(1).GD.A)GO TO 2

IF (WHERE(1).EQ.A)GO TO 2

S

IF (IEXTHAP.NE.0) CALL ERROR(1) CONTINUE ~

10

IRES=I+1 IEND=I

15

50

52

| TEMPORE | TEMP

4

35

RETIUM

0,

45

STEP=DIST RETURN

20

55

CALL SEARCH(1.8.LESS.MORE) DISTIBATER (1. LESS*1)
DISTIBATER (1. MOHE. 1) - B
DISTER (1. MOHE. 1) - B
DISTER (1. MOHE. 1) - B
DISTER (1) - A
DISTER (1) - A 0

304

30

FTN 4.6+420

		SUBROUTINE NXTPNT	VE NXTP	21/21 Tu	OPT=0 ROUND=0/ TRACE	D=+/ TRACE		FTN 4.6.420	•450	11/20/60	13.54.00	PAGE	~
		•	50	01574-01575-01576-106 60 10 4 CAL SEARCH(1,00,1ESS, 0) 01571-89-76R(1,1ESS, 1) 01571-184S(1,40,6,1)-40	01514=D1515=D1516=10E50 60 10 4 CALL SEARCH(I.B.LESS.HORE) D1571=B-TER(I.LESS.1) D1571=B-TER(I.MLESS.1) D1571=B-TER(I.MLESS.1)	۵							
		59		DISTRACTOR OF THE DISTRACT OF	DISTRACTOR (1972) DISTRACTOR (1972) DISTRACTOR (1972) DISTRACTOR (1973) DISTRACTOR (1973) DISTRACTOR (1974) DISTRACTOR (1974) DISTRACTOR (1974)	10E50 -WHERE (I-1 (I+1)-WHER	E (1)						
		02	90	CALL SEARCH DISTI=8-TER DISTI=ABS(0) DISTE=TER(1) DISTE=ABS(0)	CALL SEANCH (IPOW.B.LESS.WORE) DISTI=B-TEN (IPOW.LESS.1) DISTIABS (DISTI) DISTZEN (IROW.MORE.1)-B DISTZ=AHS(DISTZ)	HORE)							
		ξ.		01573=A-WHER 01573=ABS(D) 01574=D1575= 60 TO 4 END	RE(IROW) 1ST3) =DIST6=10ES0								
		SYMBOLIC REF	REFEREN	ERENCE MAP (R=3)									
٠٥٢	ENTRY	ENTRY POINTS	DEF LINE		REFERENCES								
	VARIABLES 0 A	HLES SN	PEAL	æ	RELOCATION F.P.	REFS	•	•	92	82	95	2	
	454	<b>4</b> a	PEAL		9.8	DEFINED REFS PFFS	33 -	33	DEF INED	31	2	4	Š
						SS SETNED	25-	. 0	. 79	63	69	0.	72
	10070		PEAL		::	REFS	۰ ۵ ۸	30					
	10067	CUTNET	PEAL			REFS	35 2 5	36	37	94	5	60	53
	446		PEAL			DEFINED	4 61	8 %	39 6	45	53	29	
						DEF INED	8.2	10	36	25	53	19	62
	4,4	21510	PEAL			REFS DEFINED	2011	34.	00	0.45 4.50	55 55	35	2.3
	450	01513	PEAL			REFS DEFINED	222	34	22	4.5 5.6	57	65	9
	451	91510	PEAL			REFS	25.	34	45	45	DEF INEO	54	25
	452	01575	PEAL			REFS	27	31	35	2 %	£3	45	•
	453	91516	REAL			DEFINED	58	31	33	9.6 9.6	\$ <b>4</b>	0 4 0 5	2

r	;	2					63		33				7.4																		35					5.33					53								
PAGE	,	69					19		32	:	23		22	102	•		72														25					25.22					30	75							
13.54.00	ć	96					9		58	33	35		20	9	;		69														54				9	8					53	73							
11/20/60		*					*1		5.6	36	2		64	5 7	;		63													9	22					2					27	2							
420	;	33					13	1	18	33	33		47	9	:		9												84	DEF INED	20	72			•	2.2			69		52	49							
FTN 4.6.420	,	3					•	DEF INED	16	00	2	-		25	18	50	54	54	25										37	2047	91	20			a	2.67			9		23	62	54				7		
	ć	8 ^	, 0	. ~	2	~	60	3.67	15	2.5	71	. ^	, ~	200	16	17	20	16	17	~	~	~	~	~ (	<b>u</b> (	<b>u</b> 0	u 0	, ~	-	2.36	~	63	N	N	ve	5.66		51	20		21	21	34				89		
D=+/ TRACE	200	DEF INEU	REFS	REFS	REFS	REFS	REFS	3.66	REFS	DEFE	DEFINED	RFFS	RFFS	REFS	REFS	REFS	S LL S	2000	2 2 2 2 2	0560	REFS	REFS	DEF INED	REFS	REFS	19	REFS	SEP S	200	56			17	DEFEDENCES	19	52	31	CES			65								
OPT=0 ROUND=+/ TRACE	RELOCATION	,,		' '	11	11						, ,	11							11	' '	,,	,,						F.P.		,,		,,				REFERENCES	11	16	DEF LINE				REFERENCES	~	35	30	<u>د</u> و	15
74/74	RELC																					AKKAY	74004	A 400 4	-						ARRAY		ARRAY	4444	> 4004		APGS		•	Apge	1 INTRIN		NININI	DEF LINE	0.	19	35	200	69
NXTPNT	TYPE	PFAL	PEAL	PEAL	REAL	PEAL	INTEGER		INTEGER	TNTEGER		INTEGER	THEGER	INTEGER	INTEGER	HE AL	ME AL	DE A1	05.41	REAL	PEAL	REAL	PEAL	PEAL	PEAL		HE AL	PE AL	DEAL		TYPE			TYPE	REAL		WE AL												
SUBROUTINE NXTP	LES SN	FCOST							1866	TEND		1F x TRAP			LESSA			LONEB		N. P. G.		706					SIMPGL						TESTANT		HERE		11.5	EAROR	SEARCH	FUNCTIONS	485		INIT	STATEMENT LABELS	- (	3.	1:	20	30
	VARIABLES	10072	10073	10074	1001	10056	437		011	177		^	221	454	277	777	451	675	445	59	400	6	ç,	0 ~			12	=	0	431	255		25001	10001	137		EXTERNALS			INLINE				STATEME	6	172	147	275	337

	SUBROU	SUBROUTINE NXTPNT		0PT=0 R0	74/74 OPT=0 ROUND=+/ TRACE	FIN 4.6.420	04/05/11 13:34:00		
20005	LABEL	LOOPS LABEL INDEX 20 1 + 1	FR0M-10	FROM-TO LENGTH 7 10	PROPERTIES OPT	EXITS			
NO DE LA COLOR DE	COMMON BLOCKS	4157	A S S S S S S S S S S S S S S S S S S S	0 SEGHEG 3 RUNS 10 SINPGL 52 NIMP 55 PER 46 TER 50 FILLNET 53 FILCOST	MEMBERS - 81AS NAME (LENGTH) 0 SEGHEG (1) 3 RUNS (3) 10 SINDEL (1) 52 NTMP (1) 52 NTMP (1) 54 FR (4000) 4150 FILLNET(1) 4156 ELIMLO (1)	1 SEGEND (1) 6 RUNE (3) 11 COSPGL (1) 53 NPGL (1) 95 WFRE (50) 4146 TLSTART(2) 4151 CUTNET (1) 4154 ECOST (1)	2 IEXTRAP(1) 9 SPSTEP (1) 12 TMP (40) 54 RELAREA!) 145 IROW (1) 4148 TLSTOP (2) 4152 CUTCOST(1) 4155 ELIMHI (1)	2282222	
STATISTICS PROGRAM	ATISTICS PROGRAM LENGTH	PROGRAM LENGTH	4678	311					

SUBROUTINE STPLTI	STPLTI	74/74	0PT=0	OPT=0 ROUND=+/ TRACE	TRAC	<b>.</b>	4 2 4	FTN 4.6.420	09/02/77 13.54.00	13.54.00	PAGE	~
	21 INE	INEW = (IDIFF(2) + 1)/2 IPLACE = INEW - IDIFF(1)	(2) 1	1/2								
09	101	101FF(1) = INEW GO TO 30										
	7 J = 1F(3	J = 113/(5.101FF(1))  IF (3.5.J.*101FF(2).LT. 55) 60 T0 8	2) .LT.	55) 60 T	80							
59	1 1 1	IF (ISUM .LT. 8) GO TO 27 IF (MOD (IDIFF (2).2).NE.0)	8) GO 18	0 27	2) =MA	F( SUM .LT. 8) GO TO 27  F(MOD( U)FF(2).2).NE.0)MAX(2)=MAX(2)+(MAX(2)-MIN(2))/	-HIN (2	711				
	1016	FLOAT (101FF (2) + 1)/2	FLOAT(IDIFF(2))	F(2))								
ì	27 1016	101FF(1) = 2*IDIFF(1)	IDIFFU	-								
10	196	1PLACE = 1PLACE . 1 60 TO 7	CE • 1									
	29 101F	24 101FF(1) = 2.101FF(2) 29 1PLACE = 1	IDIFF (2									
25	30 0 = 1	113/(5*10	IFF (1))									
	K =	K = 6 - 241 IF (445 (MAX(1)) - 1 - 1 - 0 E4) GO TO 9	L of Le	06 (4) GO	10							
	000	OLD = MAX (1)			2							
80	9 15 (	1F (ABS (*IN(I)	1.67. 1	. 0E-4 .0	R. AB	S. ((I)XAN)S	T. 1.	GD TO 10 9 IF (ABS (MIN(I)), GT. 1.0E-4 .0R. ABS (MAX(I)) .GT. 1. 0E-3) GO TO 11				
	16	OLD = MIN (I) IF (QLD - FQ - 0 - 0) OLD = MAX (I)	10 (0-0	MAN =	5							
	10 NOR	10 NOR = -ALOGIO(ABS(OLD)) IF (ABS(OLD) -LT. 1.0) NOR = NOR + 1	LT. 1.0	D))	NON	-						
95	TOP	NSCALE(K) = NOF IORDR(I) = IOROR(I) + NOR	PDR(I)	• NOR								
	11 IF (1		67. 0)	IORDR (I)	0							
06		PLOTI (NS	CALE . ID	IFF (2) .3	1 L	CALL PLOT (IMAGE MAX (1) MIN (1) MAX (2) MIN (2)						
	IF (	CALL PLOT3(BCD, X,Y.NUM.IMAGE)	D.X.Y.N	ILM I MAGE								
95	RETURN	RETURN	יייייייייייייייייייייייייייייייייייייי	ABCO - 1 MA	100							
	101 FOR	4AT (11+4 11+ 21+ 11+ 4AT (11+0.23	ECTION	[[H% []4,39H******* GR 2]H [HECTION ********] [[H0,23x,29H****** PR	GRAF	101 FORWAT(11MG 23.4.394000000000 GRAPH SIZE INDETERMINATE IN .A1.  1 21H [HCCTION 000000000)  102 FORWAT(1H0.23x,294000000000000000000000000000000000000	ERMINA F .A1.	101 FORMAT(11H0 (2) A, 39H************************************				
100	END		TIMES	CTUAL VA	LUES	I3.31H TIMES ACTUAL VALUES ********)						

54

25

DEFINED

62

78

DEF INED

64

REFS

REFERENCES 92

ENTRY POINTS OFF LINE 4 STPLT1 1 23 STPLT2 10

SYMBOLIC REFERENCE MAP (R=3)

		76	20.00	100	0			99	72	9	;			28		į	24							92	16.2	65	39	16					86	68		82	78															
	39	33	500	15.5		2.5		25	69	95	2		:	15	60		25							52	82	34	35	13			37		83	85		38	36															
	38	30.33	25.50	2,30	0	99.7		51	19	53	3		000000	DEF INEU	88		45			1,	74			22	90	52	25	12			33		DEF INED	2.50		37	35			9	93		93									1
	35	0.40	00.00	3.53	3			5**2	5465	14	:	70		09	A6	88	50		45	DEFINED	62	92		17	7.8	11	18	DEFINED			DEF INED		87	9	-	5.36	32		11	DEFINED	5.16		2.18									6
	34	7140	11.2	92.2	0,	5.86	75	5044	63	30	ì	60	2 .	56	30	98	DEF INED		DEFINED	99	DEF INED	DEF INED	-	15	77	15	16	16.2		1	2.38	-	98	DEF INED	DEF INED	34	31		1	10	2.15		2.17									2000
	31	7140	01.5	17	45.4	28	21	04	69	DEFINED	72		1.	53	62	53	68		64	25	5.90	89	DEF INED	٦	5.65	13	3	8	38	DEFINED	2.34	DEFINED	85	06	93	33	DEF INED		DEF INED	27	12		13									;
	t	30	51.2	5.50	5.38	81	14	4	20	2000	06.3		٥,	25	1	58	20	73	94	20	63	85	47	~	39	12		80	56	76	2	76	84	4	14	2.35	94	82	26	4	•	. –		-		18						;
	REFS	DEFINED	KETS	52.2	5632	2.80	DEF INED	REFS		2,0	: 5		KETS	REFS	REFS	DEF INED	REFS	70	REFS	REFS	REFS	REFS	REFS	REFS	31	DEFINED	AFFS	9	18	REFS	REFS	REFS	REFS	REFS	RFFS	REFS	R3	8	REFS	REFS	REFS	DEFINED	REFS	DEF INED		7.2		93				REFERENCES
ATION												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SIPCOM										F.P.							F.P.		F.P.			F.P.						F.P.		F.P.			WRITES	PEFERENCES	28	06	16	E 0	DEF LINE
RELOCATION	ARRAY							ARRAY					AKKAY		ARRAY									ARRAY			ARRAY							ARRAY						ARRAY	ARRAY		ARRAY				a soca	1 LIBRARY	2	ı,	i, c	ARGS
TYPE	REAL		INTEGER					INTEGER				01010	INTEGEN	INTEGER	INTEGER		INTEGER		INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	PEAL			PFAL			INTEGER	PEAL	INTEGER	INTEGER	INTEGER	INTEGER	REAL			PEAL	REAL	REAL		REAL		MODE	FHT		PEAL				TYPE
S			-					TOIFF					MAGE	INE	IORDR		IPLACE		IRATIO	I SUM	7	*		MAX			21			NCHAR	NEW	NHABCD	NOR	NSCALE	NON	000			N.S	SYMB	. *		*		534	TAPELL		AL0610	PLOT1	PLOTZ	PL013	FUNCTIONS
ARIABL	622 FAC		2/0					119					0	575	209		571		574	573	576	577	0	601			109			0			009			572			567	620			•		FILE NAMES		YTEDNA					INLINE

.20 09/02/77 13.54.00				
FTN 4.6.420		12 19	S &	
OPT=0 ROUND=+/ TRACE	DEF LINE REFERENCES 65 65	\$ \$ \$.	PROPERTIES OPT EXT REFS EXT REFS	(LENGTH) 2100)
		FEFERENCES 23 446 446 446 447 447 447 447 447 447 447	LENGTH 239 1248 718	MEMBERS - BIAS NAME(LENGTH) 0 IMAGE (2100) 6448 420
74/74	ARGS INTRIN	DEF LINE 28 43 55 55 55 56 75 75 76 77 77 78 88 88 88 88 89 99 112 112 112 113 114 114	FROM-10 14 19 21 43 75 89	
SUBROUTINE STPLT1	FUNCTIONS TYPE FLOAT REAL MOD INTEGER	STATEMENT LABELS  120 1 215 2 226 6 276 7 304 8 301 9 377 10 426 11 626 21 324 27 337 30 35 50 6 51 533 101 FMT 544 102 FMT	LABEL INDEX 51 1 2 • 1 12 • 1	COMMON ALOCKS LENGTH STPCOM 2100 STATISTICS PROGRAM LENGTH
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CARD NR. SEVERITY DETAILS

SYMBOLIC REFERENCE MAP (H=3)

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CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

CONTROL VARIABLE IN COMMON OR EQUIVALENCED. OPTIMIZATION MAY BE INMIBITED.

REFERENCES 57

ENTRY POINTS DEF LINE

SYMBOLIC REFERENCE MAP (R=3)

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	S9 CINTERNITA					3)				34	DASH (13)	

SUBROUTINE PLOT3	PL0T3	74/74	0PT=0	74/74 OPT=0 ROUND=*/ TRACE	074.0.4 NIL	00:26:61	13.5	2	
COMMON BLOCKS LENGTH		MEMBERS	- BIAS NAME (LE 66 LINPUNY(I) 71 MAT2 (2) 77 KORE (I) 80 BAD2 (I) 83 J (I) 89 NGT9 (I) 89 NGT9 (I)	MEMBERS - BIAS NAME(LENGTH) 66 LINPUNY(1) 71 MAT2 (2) 77 KORE (1) 80 BAD2 (1) 83 J (1) 84 MF (1) 89 NGT9 (1)	67 COLPUNX(1) 73 MAT3 78 LIMIT (1) 81 BAD3 (1) 84 K (1) 90 LAB (1)	968 1985 1985 1985	68 MAT1 76 ISIZE 79 BAD1 82 I 85 I 88 NCHAR	888888	
EQUIV CLASSES LENGTH  N  Y  N  NSCALE T		MEMBERS	- BIAS 0 XNK 0 IY 0 IX	MEMBERS - BIAS NAME(LENGTH) 0 xN (1) 0 IY (1) 0 IX (1) 0 IX (1)					
STATISTICS PROGRAM LENGTH	1	2438		163					

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09/02/77 13.54.00
                                                                                                                                REAL LINGUIN COLISCOLNIA COLISCONIA COLISCONIA
FTN 4.6.420
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MAT3(2)=(MAT3(2),AND,777777777777778),OR.LAB
WPITE(11,MAT3)(VT(1),1=1,J)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IF(KI.NE.1)GO TO 50
IF(NOMD.NE.0)GO TO 50
VALUE=(YMAX-(I-1)*UNYPLIN)*SCALE(2)
WHITE(11)*MAT1)LAB.VALUE.(IMAGE(K)*K=K3*K4)
GO TO 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPITE(11, MATZ) LAB, (IMAGE(K), K=K3,K4)
CONTINUE
IF (NOAB, NE, 0) PETURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VT (J) = (XMIN+(I-1) *UNXPCOL) *SCALE (4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TENCHAR, AND, MTF

IF (IT.NE.0)NCHAR=ABS(XNN)

IF ((HAD)1-HAD2-HAD3), GT.0) GO TO 999
   OPT=0 ROUND=+/ TRACE
                                                                                                   SUBPOUTINE PLOT4 (NN.LABEL, IMAGE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WRITE(11.1001)
FORMAT(* NO PLOT MADE*)
RETURN
END
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            D0 99 1=1.J
IF (1.61.NCHAR) G0 T0 25
K1=(1-1)/KORE.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         00 109 I=1.COLS.NGT9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     J=L INFS
IF (NOROT.NE.0) J=J-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IF (KI.GT.K2)20.21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LAB=LABEL (K2)
LAB=SHIFT (LAB.6)
GO TO 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCHAP = I ABS (NN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     K1=M00(1.NSBH)
   74/74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       K4=K4+WORDS
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SUBROUTINE PLOT4
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OPT=0 ROUND=+/	ARG)	S.COLMI CALE (S) .NHL 41T.NOBOT.N 3) .ISPACE (1	NCHAR.NGT9	و	9	2.4			i	REFS REFS	REFS	HEFS	REFS REFS DEFINED REFS	HEFS	DEFINED REFS REFS	REFS REFS REFS
74/74 00	SUBROLITINE OMIT (TARG)	COMMONIA WORDS.COLS.COLMI INCOMPLOTIONSCALE (5).NHL.NSBH.NVL.NSBV.XMAX.XMIN.YMAX.YMIN. WORDS.IDATA.[104]T.NOBOT.NOBO.NOAB.VT[15].COLMI.COLS.LINF. JAT. (2).MATZ (2).MATZ (2).	EQUIVALENCE (1.4RG) 1=14RG 1F (1ANG-LT-0)60 TO 10	10w1 = 3.4x10.wTF 1F (11.wF.o) 10w1 = 4R6 NOAH=10w1T.4x0.1 NOBDE 10w1T.4x0.2	RETURN 11 = MF - AND - NOT - 1AHG 10MIT = NOT - 1AG 1F (IT - NOT - 1ABG - ABS - ABG)	NOORD SOLL SAND .NOT. I NOROT SOM IT SAND .NOT. 2 RETURN		(R=3) RFFEDE	HELOCATION COMPLOT	COMPLOT	COMPLOT	COMPLOT	COMPLOT	COMPLOT	COMPLOT	COMPLOT
TING	SUBR	- VE 4	EQUIVA 1=1486 1F (148	10M17=14KG IF (17-NF-0) NOAM=10M17- NOOMD=19M17- NOBNOT=19M17-	RETURN IT=MTF. IOMIT=1 IF (IT-NE	NOGRO = 10 NOBOT = 10 RETURN END	:	E MAP (R.					ARRAY		ARHAY	
SUBROUTINE ONIT					0		SYMBOLIC REFERENCE	DEF LINE	SN TYPE REAL PEAL			INTEGER	INTEGER	INTEGED	INTEGER	INTEGER
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INTEGER	INTEGER				COMPLOT	REFS	4	DEF INED	91	23			
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INTEGER   ARMAY   COMPLOT   REFS   4	INTEGER   ARMAY   COMPLOT   REFS   4   4   4   4   4   4   4   4   4				COMPLOT	REFS	4						
NEGER	NEGER   COMPLOT   REFS   4   4   4   4   4   4   4   4   4				COMPLOT	DEFE	4						
DEFAULT   REFS   4   4   4   4   4   4   4   4   4	PEAL COMPLOT REFS				TO TOMOS	5.30							
PEAL COMPLOI NEFS 4	PEAL COMPLOT REFS 4		INTEGEN		כמשברסו	2112	,						
DEAL COMPLOT REFS 4	DEAL COMPLOT REFS 4				COMPLOT	REFS	1						
N FEAL   COWPLOT   REFS   4	N FEAL				COMPLOT	REFS	4						
DEAL   APRAY   COMPLOT   REFS   4	DEFAL   APRAY   COMPLOT   REFS   4   4   4   4   4   4   4   4   4				COMPLOT	HEFE	4						
THE GER	INTEGER			*****	10000	5							
NEGRET   COMPLOT REFS	The Correct Court				COFFLOI	KETS							
PEAL   COMPLOT   REFS	DE AL COMPLOT REFS 4				COMPLOI	REFS	9	•					
PEAL   COMPLOT REFS	PEAL   COMPLOT REFS				COMPLOT	REFS	4						
PEAL COMPLOT REFS 4  PEAL COMPLOT REFS 4  ONS TYPE ARGS DEF LINE REFERENCES  REAL 1 INTRIN 21  CLENGTH MEMBERS - BIAS NAME (LENGTH) 8 NAME (1) 17 NOOPO (1) 18 NOAB 19 VT 19 V	PEAL COMPLOT REFS 4  PEAL COMPLOT REFS 4  ONS TYPE ARGS DEF LINE REFERENCES  19 11  10 XMTN (1)  11 YMAX (1)  12 YMIN  11 YMAX (1)  13 19CD (1)  14 NDSTA (1)  15 NUL  1 NOTOND (1)  15 NUL  15 NUL  16 NUR  16 NUR  17 NOTOND (1)  18 NUR  18 NUR				COMPLOT	REFS	4	*					
PEAL COMPLOT REFS 4  ONS TYPE ARGS DEF LINE REFERENCES  ELS DEF LINE REFERENCES  ELS DEF LINE REFERENCES  19 11  CENGTH MEMBERS - BIAS NAME(LENGTH)  T NVL (1)  10 ACAL (5)  T NVL (1)  T NORD (1)  T	PEAL COMPLOT REFS 4  ONS TYPE ARGS DEF LINE REFERENCES  ELS DEF LINE REFERENCES  19 11 NOCALE (5) RNSPV (1) B VANA  T VOL (1) 11 VANA (1) 15 VAIN  10 VAIN (1) 11 VANA (1) 15 VAIN  11 RNDROT (1) 17 NOCRO (1) 15 VAIN  13 IACD (1) 17 NOCRO (1) 15 VAIN  13 IACD (1) 17 NOCRO (1) 15 VAIN  14 NATA (1) 17 NOCRO (1) 15 VAIN  15 IACD (1) 17 NOCRO (1) 15 VAIN  16 NORDT (1) 17 NOCRO (1) 15 VAIN  17 NOCRO (1) 17 NOCRO (1) 15 VAIN  18 LINES (1) 18 VAIN				COMPLOT	REFS	4						
Second   S	NE   TYPE   APGS   DEF LINE REFERENCES   1				CUMPLOT	REFS	4						
NEED	PEAL   INTRIN   21												
PEAL   INTRIN   21   1   1   1   1   1   1   1   1	REAL   INTRIN   21   1   1   1   1   1   1   1   1					REFERENCES							
LENGTH MEMBERS - BIAS NAME (LENGTH)   S NHL (1)   6 N5WH     T NVL (1)   11 YMAX (1)   12 YMIN     T NVL (1)   11 YMAX (1)   12 YMIN     T NVL (1)   14 NOBY (1)   15 YMIN     T NVL (1)   14 NOBY (1)   15 YMIN     T NVL (1)   17 NOBY (1)   18 NOBY (1)     T NVL (1)   17 NOBY (1)   18 NOBY (1)     T NVL (1)   18 YMIN (1)   18 NOBY (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)   18 YMIN (1)     T NVL (1)   18 YMIN (1)	LENGTH MEMBERS - BIAS NAME (LENGTH)   S NHL (1)   6 NSCH     1	AHS	REAL	INI	NIX	21							
LENGTH MEMBERS - BIAS NAME (LENGTH) 5 NHL (1) 6 NSHH  T 91 NSCALE (5) 8 NSBV (1) 12 YMIN  10 XWIN (1) 11 YMAX (1) 12 YMIN  11 1 MOTO (1) 17 NOORO (1) 15 10MIT  15 NOORO (1) 17 NOORO (1) 15 10MIT  16 NOBOT (1) 17 NOORO (1) 18 NOORO  17 NOORO (1) 17 NOORO (1) 18 NOORO  18 NOORO (1) 18 NOORO  19 VT (15) 34 WORD (1) 18 NOORO  55 LINPUNK (1) 65 UNAPCINC  56 LINPUNK (1) 65 UNAPCINC  57 NOOR (1) 65 UNAPCINC  58 NOORO (1) 65 UNAPCINC  58 NOORO (1) 65 UNAPCINC  59 NOTO (1) 87 MPC (1) 88 NOORO  FENGTH MEMBERS - BIAS NAME (LENGTH) 90 LAB (1) 88 NOOROR	LENGTH MEMBERS - BIAS NAME (LENGTH) 5 NHL (1) 6 NSWH  T NOT (1) 11 YMAX (1) 15 YMIN 11 10 XMIN (1) 15 YMIN (1)	CTATEMENT	9 1361	1 330									
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10 xwln (1) 11 ywax (1) 12 ywln 12 ywln 13 19CD (1) 14 NDATA (1) 15 IOWIT 1	10 xwln (1)						ď	NARV		9		-	
10 KENGTH   11 THEMS   11 THEMS   12 THEMS   13 THEMS   13 THEMS   14 THEMS   15 THEMS   15 THEMS   16 THEMS   17 NORD   17 NORD   17 NORD   18 NORD   18 NORD   18 NORD   19 THEMS   18	10 KENT   11   11   11   11   12   12   12   1												
13 19CD (1) 17 NOARA (1) 15 10ABT 19 19 VT (15) 34 COLM (1) 15 10ABT 19 VT (15) 35 COLM (1) 35 COLM (1	13 19CD (1)   14 NOATA (1)   15 10ATT     16 NOBT (1)   17 NOATA (1)   15 10ATT     17 NOE (1)   34 COLM (1)   18 NOAB     18 LINES (1)   37 WORDS (1)   38 IDASH     18 LINES (1)   64 UNYPLIN (1)   65 UNYPCOL     18 LINES (1)   64 UNYPLIN (1)   65 UNYPOL     18 LINES (1)   67 UNYPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNYPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UNTARPLIN (1)     18 LINES (1)   67 UNTARPLIN (1)   68 UN						=	YAMA		7	27.		
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36 LINES (1) 37 WORDS (1) 38 IDASH 51 ISPACE (13) 64 UNYPLIN(1) 65 UNXPCOL 66 UNYPLIN(1) 67 CUPUNX(1) 68 MIT 71 MAT2 (2) 73 MAT3 (3) 76 ISIZE 77 KOPE (1) 78 MAT3 (3) 76 ISIZE 77 KOPE (1) 78 MAT3 (1) 68 MIT 78 MAT3 (1) 84 K (1) 85 II 83 J MTF (1) 84 K (1) 85 II 84 K (1) 85 II 85 MTF (1) 87 MPC (1) 88 NCHAR  LENGTH MEMBERS - BIAS NAME(LENGTH)	36 LINES (1) 37 WORDS (1) 39 IDASH 51 ISPACE (13) 64 UNTPLIN(1) 65 UNAPCOL 66 LINPUNY(1) 73 MAT3 (3) 76 ISIZE 77 KORE (1) 78 MAT3 (1) 76 ISIZE 77 KORE (1) 78 MAT3 (1) 79 BAD1 80 UAD2 (1) 84 K (1) 87 MPC 10 85 MTF (1) 87 MPC (1) 85 II 81 UAD3 (1) 84 MPC (1) 85 II 82 III 84 NCHAR 84 NCHAR 85 MTF (1) 87 MPC (1) 88 NCHAR 86 MTF (1) 86 III 88 NCHAR 86 MTF (1) 86 MTF (1) 86 III 88 NCHAR 87 MPC (1) 88 NCHAR 88 NCHAR 88 NCHAR					. 15	34	COLMI		35	COLS	(1)	
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66 MTT	SECTION   SECT				TCDACE		44	INVDI TN		24	OJOANI		
71 MATZ (2) 73 MAT3 (3) 76 ISIZE 77 KOPE (1) 78 LIMIT (1) 79 BAD1 82 IN 82 IN 82 IN 82 IN 82 IN 82 IN 84 K (1) 85 IN 85	To be compared to the compar				1		5						
TI MATE (2) 73 MAIS (3) 76 ISLZE (4) 84 MAIS (1) 82 ISLZE (1) 84 MAIS (1) 82 ISLZE (1) 85 MTF (1) 85 T 85 T 85 MTF (1) 86 NCHAP (1) 86	T   Mar   C   C   C   C   C   C   C   C   C				LINE		-	2001		0		6	
77 KONE (1) 78 LIMIT (1) 79 BAD1 79 BA	77 KORE (1) 78 LIMIT (1) 79 BAD1 60 BAD2 (1) 84 K (1) 85 T 85				MAIS		7	S I WE		16	1512E	=	
HO BAD2 (1) A1 BAD3 (1) B2 I B3 J (1) B4 K (1) B5 T B5 MTF (1) B7 MPC (1) 88 NCHAR A9 NGT9 (1) 90 LAB (1) 88 NCHAR LENGTH MEMHERS - BIAS NAME(LENGTH)	HO BAD2 (1) A1 BAD3 (1) B2 I B3 J (1) B4 K (1) B5 T B4 MT (1) B7 MPC (1) B8 NCHAR A9 NGT9 (1) 90 LAB (1) B8 NCHAR LENGTH MEMHERS - BIAS NAME(LENGTH)				KONE		78	LIMIT		75	8A01	3	
83 J (1) 84 K (1) 85 T 86 MTF (1) 87 MPC (1) 88 NCHAR 90 LAB (1) 88 NCHAR LENGTH MEMHERS - BIAS NAME(LENGTH)	83 J (1)   84 K (1)   85 T   87 MPC (1)   88 NCHAR   88 NCHAR   1)   88 NCHAR   10 NCH				8402		£	8403		82		:	
86 MTF (1) 87 MPC (1) 88 NCHAR 89 NGT9 (1) 90 LAB (1) 90 LAB (1)	95 MTF (1) 87 MPC (1) 88 NCHAR A9 NGT9 (1) 90 LAB (1) 88 NCHAR LENGTH MEMHERS - BIAS NAME(LENGTH) 0 ARG (1)				7		84	*		88		-	
LENGTH MEMBERS - BIAS NAME(LENGTH)	LENGTH MEMBERS - BIAS NAME (LENGTH)  1 0 ARG (1)				415		78	707		9 9	GALON		
LENGTH MEMBERS - BIAS NAME (LENGTH)	LENGTH MEMBERS - BIAS NAME (LENGTH)  1 0 ARG (1)				OLUN		0	84		5		:	
LENGTH MEMHERS -	LENGTH MEMBERS -												
בביאסוון הבשטבאס	1	SOUTH CLASSE		2030474	1	- FACTOR							
	DARG O	E001V CL#530		MEMBERS	, `	LENGIH)							

PAGE 09/02/77 13.54.00 FTN 4.6.420 74/74 OPT=0 ROUND=+/ TRACE STATISTICS PROGRAM LENGTH CM LARELED COMMON LENGTH SUBROUTINE OMIT

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DASPXX

BUSAMOS

IDENT COMPSUB ENTRY DASPXXX USE /COMPLOT/

NSCALE

NSBH NSHV XMAX NIWX YMAX

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PARMS (USED) TO ALTER STANDARD PLOTS)
NO. HGRITONIAL GRID LINE
NO. OF SPACES RETREEN WOR. GRIDS
NO. OF SPACES RETREEN WOR. GRIDS
NO. OF SPACES RETREEN WERT. GRIDS
NO. OF SPACES RETREEN WERT. GRIDS
NO. OF SPACES RETREEN WERT. GRIDS
VALUE OF ARSCISSA AT LEFT GRID
NALUE OF ORDINATE AT TOP GRID
NO. OF ORDINATE AT TOP GRID
NO. OF ORDINATE AT GRID GRID
NO. OF COLUMNS TO PLOT (SINGLE CALL)
VALUE OF ARG OWITING BOTTOW GRID LINE
FLAG FOR OWITING BOTTOW GRID LINE
FLAG FOR OWITING AREAINE VALUES
FLAG FOR OWITING AREAINS
NO. OF COLUMNS IN A LINE (IMAGE)
NO. OF COLUMNS IN A LINE (IMAGE)
NO. OF COLUMNS IN A LINE (IMAGE)
NO. OF WORNING AREAING WOR GRID LINES
UNITS OF Y PER LINE
UNITS OF CHARACTERS/LINE (SOIPR=123)
FLAG (RAD PLOT Z CALL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MASK FOR TESTING FLOATING POINT
RIGHTMOST CHARACTER MASK
NO. CHARACTERS IN LABEL ARRAY
NO. SPACES BETWEEN PRINTER VERT GRIDS
TEMPORARY
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## LAY A LINE OF DASHES

TOASH

DASPXXX

6110000045 C

MPC NCHAR NGT9

COLS

DISPLAY CODE FOR DASH

BO 468 PLACE

0100000010

7110000046 6140000001

INSERT + IN LINE OF DASHES WHERE VERTICAL LINE INTERSECTS  DISPLAY CODE FKR PLUS	581 ISPACE LAY A LINE OF I FOR LINES CONTAINING 597 54 S43 NVL 583 NVL 584 X58V 584 X4 584 X4 581 118 9 DAGE JP DAGE CHARACTERS IN A ARRAY
10ASH 54 NVL X3+1 XSBV X4 458 PLACE	ISPACE 54 NVL X3+1 X3+1 X38V X4 118 PLACE DASPXXX
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	581 583 583 584 584 581 70 10 10 1111 ROUTINE
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COMPASS 3.3-420.

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XI CONTAINS CHARACTER TO BE INSERTED B1-FIRST WORD ADDRESS OF ARRAY B2-OFFSET B3-NUMBER OF TIMES TO INSERT CHARACTER B4-NUMBER OF POSITIONS TO SKIP BETWEEN INSERTS B5-USED TO INDICATE SHIFT OF XI (LEFT 6)BETWEEN INSERTS ROUTINE ALSO USES X0.XX.*X.*B6.X3				SKIP N CHARACTERS		50 SYMBOLS 68 REFERENCES
XI CONTAINS CHAMACTER TO BE INSERTED B1-FIRST WORD ADDRESS OF ARRAY B2-OFFSET B3-NUMBER OF TIMES TO INSERT CHAMACTE B4-NUMBER OF TIMES TO SKIP BETWEE B5-USED TO INDICATE SHIFT OF X1 (LEFT ROUTINE ALSO USES X0.x6.x2.86.x3				SK		106 STATEMENTS 1.468 SECONDS
X1 CONTAINS B1-FIRST WOR B2-OFFSET B3-NUMBER OF B4-NUMBER OF B5-USED TO I	1 24	85.80.NOSH	81 81 82.x0 x2.x0	82.45 81 82-6 82.00	611-1 54 86-1 86-84-NLOOP 83-1 83-80-MLOOP	
	AX0	E E E	8 2 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 8 8 8 9 P	582 586 586 583 61	END STORAGE USED MODEL 74 ASSEMBLY
•••••	PLACE	# C00		NLOOP	š	ENI STORAGE USED MODEL 74 ASSE
	43066	0450000021 + 20106		23 612277777 062000025 •	6111000001 6166000001 6133777776	
	925	5 5	; ;	: 2	* * * *	9

09/02/77 13.54.00							
11/20/60							
74/74 OPT=0 ROUND=*/ TRACE FTN 4.6.420	SUBPOUTINE 70NE (KAPR)  COMMON SEGRES-SEGEND. LEXTRAP. RUNS (3), SPSTEP. SINDGL, COSPGL,  ITM (20,2), NIMP, NPGL, HELAREA.PGL (20,2), WHERE (50), IROW, TER (50,40,2),  ZTLSTART (2), TLSTUP (2), FILLNET, CUTNET, CUTCOST, FILCOST, ELIMMI,  COMMON /TSV/THCK, ERCOST, PSTEP, FILPRCE, CUTPRCE, NERTH  COMMON /ZONES/ZONSTEP (9), APWID (9), APPRIR (9,3), APPREND (9,3), NAPR, APT	PSTFD=70NSTEP (KAPR) NTWP=7 NPGL=0 NPGL=0 RELAMEA=0. SEGREGAID.	PUNS(1100) = APPRETH (KAPP, 100)  RUNE(1100) = APPREND (KAPP, 100)  HYP=SQRT ((TLSTOP (1) -TLSTART (1)) **2* (TLSTOP (2) -TLSTART (2)) **2)  STAGE (LTSTART (2) -TLSTART (2)) / HYP  CORA - TRSTART (2) -TLSTART (3) / HYP	A = RINS (1) - TLSTART (1) + COSA - (RUNS (2) - TLSTART (2) + SINA A = RRINS (1) - TLSTART (1) + COSA - (RUNS (2) - TLSTART (2) + SINA B = (RRINS (2) - TLSTART (2) + COSA + (RUNS (1) - TLSTART (2) + SINA A = (RRINE (1) - TLSTART (2) + COSA + (RUNE (2) - TLSTART (2) + SINA B = (RRINE (2) - TLSTART (2) + COSA + (RUNE (1) - TLSTART (1) + SINA	### ### ##############################	2006C= (FINE (2) - RUNS (2)) /HYPGL SINPGL= (RINE (1) - RUNS (1)) /HYPGL ALF WID=-0.5° APWID (KAPR)	TMP(Z*1)=ABS(ALFWID) TMP(l*2)=TMP(Z*2)=0.0 RETURN ENO
ZONE			10				
SUBROUTINE ZONE	- v	10	51	02	\$2	30	35

REFS REFS REFS REFS REFS REFS RELOCATION ZONES ZONES ZONES ZONES REFERENCES SYMBOLIC REFERENCE MAP (R=3) ARRAY APHAY DEF LINE TYPE PEAL PEAL PEAL PEAL PEAL PEAL PEAL S 201 ALFWID 501 ALFWID 55 APPEND 22 APPEND 12 APPEND 11 APWID 174 A1 175 A1 177 A2 ENTRY POINTS

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34 15 15 32 DEFINED DEFINED DEFINED

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PAGE	<b>2</b> .	-	31 31 36	5.53
13.54.00	DEF INED	28 DEF INED	30 30 DEF INED	2 5 3 5
11/20/60	2	17 06F INED 14 32	2*28	~ ~ <del>*</del> *
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FTN 4.6.420	21 DEFINED	19 30 2*16 15 0EFINED	06F INED 06F INED 2422 2422 2420 24420 26F INED 06F INED	2*17 06FINED 9
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=+/ TRACE	######################################	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PETS PETS PETS PETS PETS PETS PETS PETS	REFS 2*23 2*23 REFS REFS REFS REFS REFS CES 28 CES
OPT=0 ROUND=0/ TRACE		TSV F.P. Zones		SONES SONES SONES TO THE TERENCES REFERENCES TO THE
74/74	w.		ARHAY ARRAY ARRAY	ARRAY ARRAY ARRAY ARRAY ARRAY ARRAY ARRAY I LIBRARY I INTRIN DEF LINE
JE ZONE		PEAL PEAL PEAL INTEGER INTEGER INTEGER INTEGER INTEGER	TE SE	
SUHPOUTINE 70NE	VARIABLES SN 173 COSA 13 COSPGL 100067 CUTNET 6 CUTNET 10075 ELIMI 10076 ELIMI 10076 FLIMI 10076 FLIMI 10076 FLIMI	FILPRCE HYP HYPGL 1D0 IEXTRAP IROW NAPR NAPR NPGL	NTMP PGL PSTEP RUNE RUNS SCGBEG SEGENO SINPGL SINPGL SOSTEP THCK	₫ ₩
	(ARIAB 173 10007 10007 10007 1007 1007 1005	251 071 071 071 071 071 071	25 5 6 0 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10062 TU 10064 TU 10064 TU 137 WH 137 WH 137 WH 137 WH 137 WH 137 WH 10065 TU 10065 LA

	SUBROUTINE PRICE	PRIC	E 74/74	0PT=0	OPT=0 ROUND=+/ TRACE	1 18	ACE	FTN 4	FTN 4.6+420	09/05/77 13.54.00	13.54.00	PAGE
	_		SUBROUTINE PRICE COMMON SEGHEG.SE ITMP (20.2) NIMP N	SEGENC P,NPGL	FELAREA	P. RUI	SURROUTINE PRICE COMMON SEGHE6, SEGEND, LEXTRAP, RUNS (3), RUNE (3), SPSTEP, SINPGL, COSPGL LOW (2), SEGHE6, SEGEND, LEXTRAP, RUNS (3), RUNE (3), SPSTEP, SINPGL, COSPGL LIMP (20, 2), NIMP, NDGL, RELAREA, PGL (20, 2), WHERE (50), SPSTEP, SINPGL, LAM!	PSTEP	SUBROUTINE PRICE COMMON SEGHEG, SEGEND, IEXTRAP, RUNS (3), RUNE (3), SPSTEP, SINDGL, COSPGL, ITMP (CO.2), THP, NPGL, RELAPEA, PGL (20,2), WHERE (50), IROW, TER (50,40,2), 3) STAGY (2), TI CYDP (2), FILINET, CHIVET COST, FILOST, ECOST, ELDMM)			
	s		3ELIMO COMMON /TSY/THCK,ERCOST,PSTEP,FILL COMMON /TMPL/ IND.SMID.TWOCL,AGCK COMMON /ZONES/ZONSTEP(9),APMID(9)	HCK, ERC IND, SK	10.TWOC	EP .F	ELIMIO COMMON /ISV/THCK,ERCOST,PSTEP.FILPRCE,CUTPRCE,NEHTH COMMON /IMPL/ IND.SMID.TWOCL,ABCK COMMON /IMPL/ IND.SMID.TWOCL,ABCK COMMON /ZONES/ZONSTEP(9),APWID(9),APRENI OI	NERTH	ELIMIO COMMON /TSV/THCK,ERCOST.PSTEP.FILPRCE,CUTPRCE.NEHTH COMMON /TNPL/ IND.SWID.TWOCL.JACK COMMON /ZNPL/ IND.SWID.TWOCL.JACK COMMON /ZNPL/ IND.SWID.TWOCL.JACK OWMON /ZNNES/ZONSTEP(9).APWID(9).APRSTR(9+3).APREND(9+3).NAPR.APT			
	0		CUTNET=ABS (CUTNET) CUTCOST=CUTNET+CUTPRCE FILCOST=FILLNET+FILCOST+PTOT FOOST=CUTCOST+FILCOST+APTOT	TNET) TOCUTPE ETOFILE FILEOS	ACE PHCE ST+APTOT							
	15	200	THCK=0.0 WRITE(4.200)JACK.THCK FORMA("1"5x00E516N S WPITE(4.100) CUTPRCE.	DESTON CUTPRCE	SCHEME SCHEME	*12. .cuī	THCK=0.0 WRITE(4.200)JACK,THCK FGRMAT("!"5x*0ESIGN SCHEME *12,20X*THICKNESS OF *F5,2* INCHES*//) BUTE(4.100) CUTPRCE.CUTNET.CUTCOST.FILPRCE.FILLNET.FILCOST.APTOT	JF OF S	THCK=0.0 WRITE(4.200) JACK.THCK WRITE(4.200) JACK.THCK FORMAT("1"5x PDESIGN SCHEME *12.20x*THICKNESS OF *F5.2* INCHES*//)			
	50	100	FORMATICK. TH 1. THE NET VOL 2TED COST OF C 3 OF FILL IS \$	UME OF UT 15	4ATEU CO CUT IS 60.F13.2	ST P	ER CUBIC YARD (0.0.* CUBIC YAR) **THE ESTIMATE(1.1 VOLUME OF FILL IS \$	205°7, 205°1, 205°1, 205°1, 205°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 20°1, 2	FORWALISK. OTHE ESTIMATED COST PER CUBIC YARD OF CUT IS \$**F7.3.13% I.**THE NET VOLUME OF CUT IS *.F10.0.* CUBIC YARDS*//35x.*THE ESTIMA 2TED COST OF CUT IS \$**F13.2//5x.*THE ESTIMATED COST PER CUBIC YARD 3 OF FILL IS \$**F7.3.12x.**THE NET VOLUME OF FILL IS \$**F7.3.12x.**THE NET VOLUME OF FILL IS \$**F7.3.12x.**THE TOTA	*4004		
N.	\$2		SL COST FOR APPROACH ZONES IS \$" 6HWORK IS ESTIMATED AT \$".F13.2) RFTURN END	PROACH	ZONES I	3.2	,F13.2//35x+"T	10	SL COST FOR APPHOACH ZONES IS \$".FI3.2//35X."THE TOTAL COST OF EART 6HWOM IS ESTIMATED AT \$".FI3.2) RFTURN END			

						=	DEF INEO						12					
						DEF INEO	18		13				DEF INED					
			18			18	=	18	DEF INED				18	18	18			
			13			13	10	=	18				13	12	12			
	80	æ	<b>6</b> 0	80	~	2	~	•	~	~	2	•	,,	~	•	~	7	2
	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS
LOCA TON	ZONES	ZONES	ZONES	ZONES	11	11	''	15V	' '	11	11	150	//	,,	150	11	TMPL	//
7	ARRAY	ARHAY		ARHAY														
341	REAL	DEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	PEAL	INTEGER	INTEGER	INTEGER
									FCOST							TEXTRAP	IND	IROM
VAHIMAN	53	25	111	=	13	10070	10001	,	10072	10073	10074	-	1001	10056	3	~	0	221

REFERENCES 27

SYMBOLIC REFERENCE MAP (R=3)
ENTRY POINTS OEF LINE REFEREN

10			, 120								
NITEGER   1906   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907   1907	3	2	HELV	T.O.	-	,	:				
THE INTEGER TOWES HESS B  THE INTEGER TOWES HESS B  THE INTEGER TOWES HESS B  THE BEAL ARMAY 1/4 REFS 2  THE BEAL ARMAY 1/4 REFS 3  THE BEAL ARMAY 1/4 REFS		INTEGER		MPL	KETS	_	91	DEF INED	*		
INTEGER		INTEGER		ZONES	KEFS	<b>6</b> 0					
INTEGER		INTEGER		TSV	REFS	9					
PEAL   STATE		TNIFGED		, ,	BFFC	•					
Part		TNIEGED			0 1 1 0	, ,					
Part			24004		0 110						
Second   S		74 74	-		5 1 1 1						
Second   S				150	KELS	۰					
SEAL ARMAY				11	REFS	2					
FEF		PE AL	ARDAY	//	REFS	2					
		DF AI	APMAY	, ,	BFFC	•					
Common   Forth   Comm		DE 41			0.50						
Common   First   First   Common   Firs					0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>J</b> (					
FE		AL AL		11	HEP S	2					
PER		DFAL		11	REFS	~					
Defile   The   Define   The   Defi		PF AL		11	REFS	^					
March   Marc		1 7 30		177	0 1 10	, ,					
PEAL ARMAY		מל מר		746	AET S	•					
THE REAL ARMAY 1'Y REFS 5 16 DEFINED 15  TO PEAL ARMAY 1'Y REFS 2  THOSE ARMAY 1'Y REFS 3  THOSE ARMAY 1'Y REFS 4  THOSE ARMAY 1'Y REFS 3  THOSE ARMAY 1'Y REFS 4  THOSE ARMAY		PEAL	ARHAY	//	REFS	2					
PEAL ARMAY		PEAL		150	REFS	•	16	DEFINED	15		
The pear   Ashah   A		PF AL	ARHAY	11	RFFS	•					
Markey   M		DEAL	*****		2000	, (					
TIONS TYPE AMERY // REFS 7  THOSE WHITES 16 18  TIONS TYPE AMES 16 18  FMT 20 F LINE REFERENCES  FMT 20 F LINE REFERENCES  FMT 30 F LINE REFERENCES  FMT 1 17 16  THOSE WHITES 16 18  THOS		1			2113						
STEP PEAL ARMAY   TWPL REFS   7   7   7   7   7   7   7   7   7		MEAL	AKKAK	,,	MET S	2					
STEP   PEAL   ARHAY   20MES   REFS   2   8   8   8   8   8   8   8   8   8		PEAL		TMPL	REFS	1					
STEP PEAL ARMAY ZONES REFS   B		PEAL	ARKAY	//	REFS	~					
HODE			ARHAY	ZONES	REFS	000					
CITIONS   TYPE   AHGS					•						
SECOND   FORTH   SECOND   SE	ILE NAMES	MODE									
S	TAPE4	FMT		WRITES	16	18					
S TYPE ANGS  PEAL 1 INTRIN 10  S DEF LINE REFERENCES  FMT 20 18  LENGTH MEMBERS - BIAS NAME(LENGTH) 1 SEGEND (1) 9 SPSTEP  10 SINPOL (1) 59 WHENE (3) 12 TAP  10 SINPOL (1) 59 WHENE (50) 1445 T-00W  10 SINPOL (1) 59 WHENE (50) 145 T-00W  10 SINPOL (1) 59 WHENE (1) 145 T-00W  10 SINPOL (1) 59 WHENE (1) 145 T-00W  10 SINPOL (1) 10 SINPOL (1) 145 T-00W  10 SINPOL (1) 10 SINPOL (1) 15 WHENE (1) 15											
FMT 20	ALINE FUNCTION	S	ARGS INTRIP		REFERENCES 10						
FMT 20 DEF LINE REFERENCES  FMT 10 18											
LENGTH   MEMBERS - RIAS NAME (LENGTH)   1 SEGEND (1)   2 TEXTRAP   4157   3 HUNS (3)   6 RUNE (3)   9 SPSTEP   10 COSPGL (1)   12 TOPS   12 TOPS   12 TOPS   13 NPGL (1)   53 NPGL (1)   54 RELAREA   55 PGL (40)   95 WHERE (50)   145 TOPS   1	ATEMENT LABER 60 100 35 200	FMT	DEF LINE		CES						
SEGEND   1   SEGND   1   SEGEND   1   SEGEND   1   SEGEND   1   SEGEND   1   SEGND   1   SEGEND   1   SEGEND   1   SEGEND   1   SEGEND   1   SEGND   1   SEGN	MANON OF DOCKS	T CNO			CACTON						
# 157   1 SCORED   1 S	יייים שרמכנוס	4,167			, , , , , ,				•		
10 SINPGL (1) 15 GONGL (1) 15 SINPGL (1) 53 NPGL (1) 52 NTWP (1) 53 NPGL (1) 55 NFLP (1) 55 NPGL (1) 5	,	1014		SEGREG			2			IL A I K B I	
1				SNOW				30		SPSIE	
SS NTMP (1)   SS NPGL (1)   SS RELAREA     SS PGL (40)   SS WHERE (50)   L45 IVOW     L46 IVER (4000)   4146 IVSTART (2)   4148 IVSTOW     L4150 FILLNET(1)   4154 ECOST (1)   4152 CUTCOST     L4150 FILLNET(1)   4154 ECOST (1)   4155 ELIMHI     L510 FILLNET(1)   4154 ECOST (1)   4155 ELIMHI     L510 FILLNET(1)   L510 FILLHI     L51			=	SINPGL	•		۰	=	12	121	
145   120   145   120   145   120   145   120   145   120   145   120   145   120   145   120   145   120   145   120   145   120   145   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120			5	ZELZ				_	54		
146 TER (4000)			, r	PGL	6			105	145	MOGI	
4150 FILLNET(1) 4151 CUTNET (1) 4152 CUTGOST 4153 FILCOST(1) 4154 ECOST (1) 4155 ELIMI 4			177	150	1000		DI		4149	TISTOD	
4153 FLCOST(1) 4154 CONTROL (1) 4155 CUTOUS (1) 4155 ELIMI 4155 ELIMI 4156 ELIMI 5 FORTH 4 CUTPRCE (1) 5 FORTH 5 FORTH 1 5 MERTH 6 CUMMON LENGTH 1 1348 92 72 NAPR (1) 73 APTOT 72 NAPR (1) 73 APTOT 73 APTOT 74 NAPR 745 84				T 1 1 1 1 2 2		-	•		6317		
4155 ELIMII 4156 ELIMIO (1) 1 ERCOST (1) 4155 ELIMII 4156 ELIMIO (1) 1 ERCOST (1) 2 PSTEP 3 FILPRE(1) 4 CUTPRC(1) 5 NERTH 4 0 100 (1) 1 SWID (1) 2 TWOCL 3 JACK (1) 9 APWID (9) 18 APRSTR 45 APREND (27) 72 NAPR (1) 73 APTOT			1	יייייייייייייייייייייייייייייייייייייי			_		2014		
6 THCK (1) 1 ERCOST (1) 2 PSTEP 3 FILPRCE (1) 4 CUTPRCE (1) 5 NERTH 4 0 IND (1) 1 SWID (1) 2 TWOCL 3 JACK (1) 9 APWID (9) 18 APRSTR 45 APREND (27) 72 NAPR (1) 73 APTOT			415	3 - 10031 0					415	EL I MAI	
ENGTH 1348 92 COMMON LENGTH 16ACT (1) 1 ERCOST (1) 2 PSTEP 2 PSTEP 2 PSTEP 2 PSTEP 3 JACK (1) 5 MERTH 4 CUTPRCE(1) 5 NERTH 4 CUTPRCE(1) 5 NERTH 45 APRENU (27) 72 NAPR (1) 73 APTOT 72 NAPR (1) 73 APTOT 73 APTOT 74 84			415	S ELIMINO (1						-	
S FILPRCE(1) 4 CUTPRCE(1) 5 NERTH  3 JACK (1) 1 SWID (1) 2 TWOCL  5 74 0 ZONSTEP(9) 9 APWID (9) 18 APRSTR  45 APREND (27) 72 NAPR (1) 73 APTOT  COMMON LENGTH 1249 84  COMMON LENGTH 1075R 4.157	157	9		THCK	•		SCOST (1	_		PSTEP	
ES 74 0 IND (1) 1 SWID (1) 2 TWOCL 3 JACK (1) 9 APWID (9) 18 APRSTR 2 TWOCL 50 COMMON LENGTH 1348 92 6 COMMON LENGTH 10758 4.157					-		JTPRCE (1	=	5	NERTH	
25 74 (1) 9 APWID (9) 18 APRSTR (2) 72 NAPR (1) 73 APTOT (20MMON LENGTH 1248 92 COMMON LENGTH 1075R 4.157	THPL	1		IND	•		10	_	2	TAOCL	
ENGTH				JACK						1	
45 APKEND (27) (2 NAPK (1) (3 APID) ENGTH 1348 92 COMMON LENGTH 10758 4157	SONES	14				9 6 F		2	18	APRSTR	
LENGTH 1348 CO COMMON LENGTH 1248 COMMON LENGTH 100758			3			2 2		2		APIOI	
40N LENGTH 1248	MATISTICS										
100758	CM LASELED CO	OMMON LENGTH									
	CH RI ANK COM	MON I FNGTH									

-		SURHOUTINE ZPRICE	AICE.					
		COMMON / ISV/TH	1CK . ERCOST . P	STEP . F	COMMON /ISV/THCK.ERCOST.PSTEP.FILPRCE.CUTPRCE.NERTH COMMON /ZONES/ZONSTEP(9).APMID(9).APRSTR(9.3).APREN	COMMON /ISVITHCK.ERCOST.PSTEP.FILPRCE.CUTPRCE.NERTH COMMON /ZONES/ZONSTEP(9).APWID(9).APRSTR(9.3).APKEND(9.3).NAPR.APT	APT	
	-	10						
2		APVOL = APTOT = 0.						
		REWIND 3						
		DO 10 IME AD=1.NAPR	NAPR					
		READ (3) APZNZ						
	100	READ (T) AHTNI						
10		IFL=EUF (3)						
		IF (IFL. " 1 . 0) 60 TO 400	007 01 0					
		VL=0.014519* (AR7N1 + AR2N2) *PSTEP	RZNI + ARZNZ)	*PSTEP				
		IF (VL.LT.0.0) APVOL=APVOL+VI.	PVOL = APVOL+	. ×				
		AP7-2-AP7NI						
15		60 10 100						
	000	APVOL = AMS (APVOL)	١٢)					
		APCOST = APVOL *CUTPRCE	UTPRCE					
		WATTE (4.1000) IMEAD, CUTPRCE, APVOL, APCOST	HE AD . CUTPRC	E.APVO	L. APCOST			
	1000	FOF .4AT ("1" 50.	"APPHOACH Z	ONE NO	MBER ", 11//5X,	1000 FOR AT ("1" SOX "APPHOACH ZONE NUMBER ".II//SX. "THE ESTIMATED COST	ST	
50	- (	PER CURIC YANG	OF CUT IS	5.7.4.5	.12X."THE NET	IPER CURIC YAND OF CUT IS SHE 7.34 IZX "THE NET VOLUME OF CUT IS HE IO	110	
	~	APPLICATION AND SECOND	JS"//35X•"IN	E 23 1	MATEU COST OF	COL 15 \$"** 13.2)		
	10	CONTINUE						
		WRITE (4.2000) NAPR. APTOT	JAPR. APTOT					
55	2000	FORMAT ("1" 35)	"THE TOTAL	COST 0	F ", II," APPRO	FORMAT("1" 35X"THE TOTAL COST OF ".11." APPROACH ZONES IS S"F13.2)	.2)	
		PETURN						
		END						

					2	DEF INED														
		17			DEF INED	18			•	*										
		DEF INED			54	17			DEF INED	æ	18			10	1	54				12
		22			25	16			14	DEF INED	17			DEF INED	DEF INED	1		12		DEF INED
		18	3	9	6	13		9	12	12	2	2	2	11	18	c	2	2	2	2*13
		REFS	REFS	REFS	REFS	REFS	16	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	HEFS	REFS	REFS	REFS	REFS
PEFERENCES	WELOCATION		ZONES	ZONES	ZUNES			ZONES			TSV	150	TSV			ZONES	150	TSV	15V	
PEFER 26	KE		ARRAY	ARRAY				ARNAY												
	N TYPE																			
ENTRY POINTS	LES S	APCOST	APPEND	APRSTR	APTOT	APVOL		4Pw10	INZGA	AR7N2	CUTPRCE	ERCOST	FILPRCE	1FL	IREAD	NADE	NERTH	PSTEP	THCK	٧,
ENTRY	VAPIAN	153	55	22	111	145		=	150	147	,	-	3	151	144	110	5	~	c	152

SYMBOLIC REFERENCE MAP (H=3)

						2 PSTEP (1) 5 NEMTH (1) 18 APHSTR (27) 73 APTOT (1)	
	•						
	MOT 10M					1 ERCOST (1) 4 CUTPRCE(1) 9 APWID (9) 72 NAPR (1)	
e	٥ %				EXT REFS		
REFS	8 61		REFERENCES 16	CES	PROPERTIES EXT	LENGTH) ) ) (7)	
RELOCATION ARMAY ZONES	READS	ARGS REFERENCES	APGS DEF LINE	DEF LINE REFERENCES 7 7 7 7 9 15 11 11 11 11 11 11 11 11 11 11 11 11	FROM-TO LENGTH	MEMBERS - BIAS NAME(LENGTH) 0 THCK (1) 3 FILPRCE(1) 0 ZONSTEP(9) 45 APREND (27)	1548 108 1208 80
VARIABLES SN TYPE 0 70NSTEP PEAL	FILE NAMES MODE TAPE3 UNFMT TAPE4 FMT	EXTERNALS TYPE AN	INLINE FUNCTIONS TYPE AN	STATEMENT LABELS 0 10 1 100 37 400 101 1000 FMT	LOOPS LABEL INDEX FF	COMMON BLOCKS LENGTH P	STATISTICS PROGRAM LENGTH CM LAGELED COMMON LENGTH

09/02/77 13.54.00

FTN 4.6-420

SURROUTINE ZPHICE 74/74 OPT=0 ROUND=4/ TRACE

COMMON/HLOCKA/KWITCHS (20)

OVERLAY (LTFE.5.0) PROGRAM FROST

COMMON/HLOCKH/COMPF.COMPP.FCOMPF.FCOMPF.SLSDBIF.

SL3DHIH.SLSPENF.SLSPENF.FLSF.FLSP.HSUHF.RSUBR.

FRSUHF.FRSUBR.HDBIF.PRFITF.PROBFF.PREUF.RSUBR.

COMMON/HLOCKC/PHSGSWI.1IPAVI.HESS.II).ISWITF.ISWITR.MSGSWZ.MSGSW3.

COMMON/HLOCKC/PYTE.K.FVFHGOD.FLG.TRAFF.DF.ITDFP.IPAVI.

FELEXIP.HGDPI.ANINDR.JFREF.DFI.TDFP.IPAVI.

COMMON/HLOCKC/PYTE.K.FVFHGOD.FLG.TRAFF.DFI.TDFP.IPAVI.

COMMON/ALOCKC/PYTE.T.FRY.CO).FRG.LS.SUBMOD.ISUBCBR.

Z ISUHHOR.RWUIST.DFYWI.CRRB.CBBIO.COMS.(4) .LCIND.OVR

COWMON/HCTAF.NOGO.NOH.NPTQ.NXG.NYG.NODG.NOSGQ.XK

COMMON/HESTR/JREST.JREST

ALL WHITES APE (I.XXXX) I IS ON NEXT LINE

0

15

DO 115 J = 1.20

KWITCHS(J) = 0

CONTINUE

READ(1.9110)DESIGN.ICONFIG.IFIL.TRAFF.DFI.TDFP.IPAVT.

I FLEXPT.OVR.HIGDPT.AMINOR.IFGRP.\$MOIST.\$UBMOD.ISUBCBR.

Z ISUHAR.HMOIST.DHYWIT.GRR.CBR10.COMS

LIF (DESIGN. EGO. 0.) GO TO 9900

LIFE? OFF AULT VALUES

IPAVI = 4-1PESI 115

20

FLEXPT = 6.0 U

0VP = 1H RIGDPT = 4.0 SUPMOD = XK

30

ISUNCAR = IFIX(XCBH . .001) CHPR=1HX 120

CALL PUBLEY
CALL OUTA (1)
00 125 J = 1019
CONTINUE 125

35

140 CALL FREEZE CALL OUTC (1) 9110 FOHMAT(AX.F6.0.11.11.A1.1X.F5.0.F3.0.11.F2.0.A1.F2.0.A1. 130 CALL OUTH (1) 50 TO 9900

0,

9900 CONTINUE

45

SYMBOLIC REFERENCE MAP (R=3)

HEFERENCES DEF LINE ENTRY POINTS

~				
PAGE				
13.54.00		2	*	
11/20/60	20 31	DEF INEO 25 30	17	23 88
.420	20 20 20 20 20 20 20 20 20	200 0 000	DEF INED	50 20
FTN 4.6.420	DEFINED DEFINED DEFINED 23 DEFINED DEFINED DEFINED DEFINED	38 DEFINED DEFINED OEFINED 25 DEFINED	35 35	DEFINED
	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	4 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	18 4 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8	04444000
OPT=0 ROUND=0/ TRACE	######################################	00 00 00 00 00 00 00 00 00 00 00 00 00	X X X X X X X X X X X X X X X X X X X	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0PT=0 ROU	RELOCCATION  KARD  KARD  KARD  KARD  RARD  RARD  KARD  KARD	R A A B D C C C C C C C C C C C C C C C C C C	M M M M M M M M M M M M M M M M M M M	RAARU BLOCKB BLOCKB BLOCKB BLOCKB RABD RABD
74/74	A P P P P P P P P P P P P P P P P P P P		A A A A A A A A A A A A A A A A A A A	
IM FROST	######################################		1 N N N N N N N N N N N N N N N N N N N	PEAL PEAL PEAL PEAL PEAL PEAL
PROGRAM	AMINOR AMINOR AMINOR BMOIST CBR10 CBR10 COMPR COMPR COMPR FAC FACOMPR FICS FICS FICS FICS FICS FICS FICS FICS	I CONFIG I CONFIG I F CONFIG I F CONFIG I F CONFIG I CONFIG I SUBCORNI I SUBC	L J J J J J J J J J J J J J J J J J J J	OVR PROBIF PROBIR PWFLTR PVTGD RIGOPI
	A P 10 0 10 0 10 0 10 0 10 0 10 0 10 0 1	64 - 113 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		

PROGRAM	# FRUST 74/74		OPT=0 ROUND=*/ TRACE		FTN 4.6.420					
VARIABLES SN		RELOCATION				,	11120160	13.54.00	PAGE	٣
		BLOCKH	HEFS	1						
SLSORTE	PE AL	BLOCKB	REFS	1 4						
SLSDRIB	25 A I	BLOCKB	REFS	4						
SLSPENF	PFAL	BLOCKB	REFS	4						
SLSPENA	DE 41	BLOCKB	REFS	4						
	PEAL	KAPD	SEES	4						
COMMOS	PE AL	KAPO	255	0 (	DEF INED	20				
1246	PEAL.	KARD	REFS	0	DEF INED	20	62			
		KAND	REFS	0	DEFINED	25				
*CHR	PFAL ARMAY	۲۵.	REFS	12	מבו זונרת	02				
XX	PFAL	,	REFS	12	30					
	PEAL	22.	REFS	£1	56					
AHA	PEAL	ВГОСКВ	5 2 3 0	75						
	REAL	۲۵۸	REFS	3 0						
	MODE		,	71						
TAPE 3	FMT	PFADS	;							
		20472	60							
EXIEMNALS	TYPE ARGS	REFERENCES								
CHEE/E	c	0,5								
ATIO	_	33								
3160		38								
PURIFY	- 0	4:								
		35								
INCINE FUNCTIONS	YPE ANGS	DEF LINE	REFERENCES							
	INTEGER 1 INTRIN		30							
¥	DEF 1.1	INC OFFICE								
0 115	200	NE METEMENCES	CES							
	INACTIVE 32									
	36	36								
130	38	35.								
0 0	07	37								
67 9900	27	20								
	7,	23	39							
	EX FROM-TO									
		מא אינ	THETACK							
			INSTACK	FYITE						
COMMON ALOCKS LENGT	1			6114						
	ACMBER'S		ENGTH)							
9LOCKB	000	0 KWITCHS(29)								
	•			-	COMPR (1)					
		S COMPR (1)		*	SLSUBTF(1)		~ 5	FCUMPF (1)		
					SL SPENR(1)			FI SE (11)		
	-			07.	RSUBF (1)			RSUBR (1)		
		PRFLTF		2:				PROBITE (1)		
C * 10 C * 1	-	XTRA		9	PROBTR (1)			_		
		MSGSWI		-	TIPAVT (1)					
		13 ISAITF (1)		-			~	MSGSW2 (11)		
TOCAD	•							111 3460		
		4		-	PVINGD (1)		2 15	2 IFLEXNA(1)		

PROGRAM PROS		40 41/41	0 10 10 10 10 10 10 10 10 10 10 10 10 10	14/14 OF I BUONDEN INACE	024+9*4 NI	024.	09/05/1/ 13.54.00	13.54.0	0	PAGE
COMMON ALOCKS LENGTH		MEMBERS - BIAS NAME (LENGTH)	AS NAME	(LENGTH)						
MARD	54	0 0	ES16N	6	1 ICONFIG	2	2	THAFF	3	
		3 0	F. 1	9	4 TOFP (	=	5	IPAVT	=	
		6 F	LEXPT	17	7 RIGDPT (	-	60	AMINOR	3	
		1 6	9 IFGRP (1)		10 SMOIST (1)	=	11	11 SUBMOD	0	
		121	SUBCHR		13 ISUBHOR(	=	71	HMOIST	::	
		15 0	PYWT	=	16 CBRB (	=	17	CHRIO	3	
		1A C	SWU	(4)	22 LCIND (	:	23	OVR	:	
רכא	56	4 0	××	11		2	2	TRY	(50)	
		22 F	AC	111		=	54	XCBR	3	
		25 X	STR	11						
NALK	œ	Ž	090	111		-	2	DION	3	
		2 0	ox	11)		=	2	5 NODO	(;)	
		Ž	0980	11)		=				
RESTR	~	0 IREST (1)	REST	-	1 JREST (	1				
STATISTICS PROGRAM LENGTH CM LARFIED COMMON I FNGTH	F	1468	102							

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SUBRC	SUBROUTINE FREEZE 74/74 OPT=0 ROUND=0/ TRACE FTN	FTN 4.6-420	11/20/60	13.54.00
27.1	IF (SAVH .LE. 1000.) GO TO 880 IF (SAVH .LE. 2000.) GO TO 870 IF (SAVH .LE. 4000.) GO TO 860 Y = (SAVH / SO.) • 46. GO TO 810 860 Y = (SAVH * 24./1000.) • 30.			
180	60 T0 R10 F (54VH • .03) • 18. 60 T0 R10 Y = (54VH • 35./1000.) 60 T0 R10			
145	F (SAVH -LE 1000.) GO TO 940  F (SAVH -LE 3000.) GO TO 940  F (SAVH -LE 3000.) GO TO 940  F (SAVH -LE 4000.) GO TO 920  F (SAVH -LE 4000.) GO TO 920			
190	= (5AVB / 50.) • 46. = Y1 - A * (Y1 - Y2) TO B10 = (5AVB / 40.) • 42.			
195	10 910 = (\$AVB = (\$AVB			
200	940 Y1 = (54VR * 31./1000.) + 24.  Y2 = (54VR * .03) * 18.  G0 T0 910  950 Y1 = (54VR / 25.) + 15.			
205	60 TO 910 IF (8401ST IF (54VB .L Y = (54VB .L			
210	1010 CONTINUE GO TO MGGT (170,430,470) 1020 Y = (SAVH * 9,/200.) * 1A. GO TO 1010 1030 Y = (SAVH / 20.) * 14.			
\$15	60 TO 1010 1050 IF (HWOIST .NE. 7.) GO TO 1100 IF (SAVH .LE. 2000.) GO TO 1080 IF (SAVH .LE. 2000.) GO TO 1070 IF (SAVHE. 4000.) GO TO 1060 Y = (SAVH * 113.44000.) SS.			
220	1060 Y = (5AVB * 7./200.) + 28. GO TO 1010 1070 Y = (5AVB * 31./800.) + 21.			
525	1000 Y = (50 10 10 10 10 10 10 10 10 10 10 10 10 10			

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1959 x = DEGIGN

IF (1CONFIG .EG. 2) GO TO 1560

IF (TRAFF .NE. 1HC) GO TO 1560

X = X = 75

1560 IF (1FGHP .EG. 1) GO TO 1580

IF (1FGHP .EG. 1) GO TO 1580

IF (1FGHP .EG. 2) GO TO 1570

F = (4LOGIO(30.) - ALOGIO(11.25))/(ALOGIO(30000.) - ALOGIO(5000.))

S = ALOGIO(X) - ALOGIO(5500.)

T = (P * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 * C | 1 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1570 R = (ALOG10(21.) - ALOG10(9.))/(ALOG10(30000.) - ALOG10(7000.))

S = ALOG10(X) - ALOG10(7000.)

T = (R * S) - ALOG10(9.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1580 R = (ALUG10(18.1- ALOG10(9.))/(ALOG10(30000.)- ALOG10(9200.))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  END LIMITED SUBGRADE FROST PENETRATION
SLSDBIF = DHI
SLSPENF = SFP
IF (IMAVI .EQ. 1) GO TO 1500
IF (RIGIDI .LE. 12.) 50 TO 1420
COMPR = SVIDFP - 12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 • END REDUCED SUBGRADE RIGID
1550 IF (IPAVT .EG. 2) GO TO 1950
• START FLEXTHLE REDUCED SUBGRADE
IF (KFLAG.NE. 1) GO TO 1559
CALL RSUBGIT. IFGRP. ITEST)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CALL PIN25(A)
IF (RIGUPT .GT. A) MSG10 = 1
G0 T0 1550
RSUBR = 4.0
                                                                                                                                                                                                   60 TO 1430
COMPR = SVTOFP - RIGOPT
IF (SVIOFP.GE.72.) MSGSW]=1
IFLAG=2
                                                                                                                                                                                                                                                                                                                                                     CALL SUMPENICOMPR.091,SFP)
SLSOHTH = 081
SLSPENR = SFP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IF (RX.GE.72.) MSGSW3=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60 TO 1900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GO TO 1900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          45611 = 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1500 CONTINUE
                                                                                                                                                                                                                                             1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1540
                                                                                                                                                                                                                                                                                                                      1430
                                                                                                                                                             590
                                                                                                                                                                                                                                                                                                                                                         562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      325
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00.45.61 77/50/80

FIN 4.6.420

OPT=0 ROUND=+/ TRACE

74/74

SURPOUTINE FREEZE

SUBROUTINE FREEZE	NE FREEZE 74/74 OPT=0 HOUND=+/ TRACE FIN 4.6+420	09/02/11	13.54.00	A
37.	S = A(DG1)(x) - ALOG10(9200.) T = R * S) * ALOG10(9.)			
į	1600 IF (ICONFIG NE. 2) GO TO 1650 IF (IFGHP -EG. 1) GO TO 1620 IF (IFGHP -EG. 2) GO TO 1610			
350	$R = (a_1 G_0 G_1 G_1 G_2) - a_2 G_1 G_1 G_2 G_2 G_3 G_3 G_3 G_4 G_5 G_1 G_3 G_4 G_5 G_5 G_5 G_5 G_5 G_5 G_5 G_5 G_5 G_5$			
355	1610 R = (4 L06) (0 (20.) - ALOGIO (9.) / (ALOGIO (30000.) - ALOGIO (8125.)) 5 = ALOGIO (x) - ALOGIO (8125.) T = (P * 5) + ALOGIO (9.)			
	60 TO 1900 1620 R = (4LOG10(16.5) - ALGG10(9.1)/(ALGG10(30000.)- ALGG10(11900.)) 5 = ALGG10(x) - ALGG10(11900.) T = (4 + 5) - ALGG10(2.)	5		
360	1900 ICONFIG .NE. 3) IFGHP .EG. 1)			
365				
370	1650 R = (ALOGIO(34.3) - ALOGIO(13.5))/(ALOGIO(120000.)-ALOGIO(30000.) 5 = ALOGIO(x) - ALOGIO(3000.) 7 = (9 * 5) * ALOGIO(13.5) 60 TO 1900	( ( • 0 0		
375	1670 R = (4LGG10(2R.5) -4LGG10(11.1)/(4LGG10(120000.)- ALGG10130000.)) 5 = ALGG10(x) - ALGG10(30000.) T = (R * 5) + ALGG10(11.) GO TO 1900 1700 IF (ICOVEIG. NE. 4) GO TO 1750 1700 IF (ICOVEIG. NE. 4) GO TO 1750	•••		
340	IF (IFGRP .E., 2) 60 TO 1710  R = (ALOGIO(47.)- ALOGIO(20.5))/(ALOGIO(90000.)- ALOGIO(25000.))  S = ALOGIO(x) - ALOGIO(25000.)  T = (P S) + ALOGIO(20.5)	â		
385	60 10 1900 R = (ALOG10(29.2) S = ALOG10(X) - AL T = (R * S) + ALOG GO TO 1900			
340	S = (aLO510(73.) ~ ALC S = ALO510(x) - ALO51 T = (P * S) +ALO510(1 GO TO 1900	2		
395	1750 IF (ICONFIG 2000.)  RA = ALOGOTO(2000.)  S = ALOGOTO(3) - ALOGOTO(10000.)  IF (IFGHP - EG. 2) GO TO 170  R = (ALOGOTO(77.) - ALOGOTO(47.5))/RA  C = (R = 5) + ALOGOTO(47.5)			
	1760 R = (ALOGIO(49.)- ALOGIO(30.5))/RA			

00+	T = (R + 5) + ALOGIO(30.5)				
	1770 F = (ALCO)(40.) - ALCG10(24.5))/RA T = (R • S) • ALCG10(24.5)				
405	60 TO 1900 1800 IF (ICOMFIG .NE. 6) 60 TO 1850				
	RA = ALOGIO (200000.) - ALOGIO (30000.)				
	IS TENDER FOR 1 SO TO 1920				
410	R = (A & C5 + A & C5 + C7 +				
	1810 R = (41.0510 (40.1- A) 0510 (18.5) / 84				
	T = (P • \$) + ALOGIO(18.5)				
	1820 R = (4L0610(50.) - / 0510(15.41)/RA				
	1850 RA = ALOGIO(330000.) - ALOGIO(160000.)				
	S = ALOSID(X) - ALOSID(150000.) IF (IFGHP .EQ. 1) GO TO 1870				
	R = (4,0610(77.5) = 0.0610(77.5)				
425	T = (P = 5) + ALOGIO (47.5)				
	1860 R = (ALOGIO (49.2) - ALOGIO (30.1)/RA				
	T = (P ° S) • ALOGIO(30.)				
	1970 P = (4L0510(41.) - AL0610(24.5))/RA				
	1 = (P * S) + ALOGIO(24.5)				
	7 = 10.00 T RSIME = 1 = 615.00T				
,	IF (PSUMF .LT. 4.) GO TO 1910				
433	MCGSW1 = 1				
	1910 BSUHF = 4.				
	END FLEXIBLE REDUCED SUBGRADE				
	ADJUSTMENT FOR MINIMUM THICKNESS  IF (IPAVT .EQ. 2) 60 TO 230  IF (COMPF .EQ. 0.) 60 TO 2030				
577	x = COMPF ASSIGN 2000 TO KGO GO TO 2200				
	.E0. 0.)				
450	10 KG0				
	60 TO 2200				
	1F (1950)				
455	45516N 2040 TO KGO				
		1820 1850 1850 1900 1910 1910 2040 2040	1810 1820 1850 1870 1900 1900 2000 2000 2000	1810 1820 1850 1870 1900 1900 2000 2000 2000	1820 1820 1850 1870 1900 2000 2040 2040

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09/02/17 13.54.00

FTN 4.6+420

OPT=0 ROUND=*/ TRACE

SUBROUTINE FREEZE

74174

SUBROUTINE FREEZE

	SUBROUTINE FREEZE	FREEZE 74/74 OPT=0 ROUND=+/ TRACE	FTN 4.6.420	09/02/77 13.54.00	13.54.00
		1F (IFGAP .Ed. 4) GO TO 3220 3210 IF (ISUMHOR .GT. 1 .AND. ISUBHOR .LT. 5) GO TO 3220	f. 5) GO TO 3220		
	575	16 (SLS)BITR .LT. RSUBR) 60 TO 3225 15WITR = 1 60 TO 4000			
		3220 ISWITH = 2			
	5A0	3225 ISWITE = 2			
		3230 IF (IFFORM • NE• 4) GO TO 3210			
		I PIGUA * I			
	לאל	* END OF PREFERED CHOICE CHECK			
		00			
	940	CALL PINSS(A)			
		A = COMPR CALL 97425(A)			
		COMPR = A			
	565	CALL PT425 (A)			
		SLSDBTF = A A = SLSDBTR			
3		CALL RTAZS(A)			
57	900	A = PSUHF			
		CALL PTN25(A) PSU3F = A			
		A I ROUTE			
	509	A = 04(1)29			
		A = SLSPENF CALCACA SISPENF = A			
	910	A = 5LSPETH CALL PT425(A)			
		• CHECK FOR FILTER IF (IPANT .EG. 2) GO TO 4010			
	615	FCOMPF = 4. COMPF = COMPF - 4.			
		FLSF = 4. SLSOBTF = SLSOBTF - 4.			
	950	FXYJGF = 4.  RSUBF = 4.  AND IF (IDAUT FOR ) 1 GO TO 4050			
		FCOMPH = 4.			
	\$29	FLSM = 4. \$LSUBIR = \$LSUBIR - 4. IF (MSUMR -LT. 9.) GO TO 4020			
		•• • • • • • • • • • • • • • • • • • • •			

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635

1005

940

END OF FILTER CHECK
MESSAGE SECTION
SOON MSGS = 1 30MINOD 0504

PSHRR = RSHR - 4. 60 TO 4050 FPSHR = RSUBR

IF (!SWITE .EG. 15.WIFF) 60 TO 5005

IF (!SWITE .EG. 15.WIFF) 60 TO 5030

IF (!SWITE .EG. 0 .OR. ISWITE .EG. 1) 60 TO 5010

IF (!SWITE .EG. 2) 60 TO 5230

ASSIGN 5010 TO MSG01

60 TO 5100

5030 IF (ISWITR .EQ. 0 .OR. ISWITR .EQ. 1) GO TO 5020 IF (ISWITR .EQ. 1) GO TO 5020 ASSIGN SOO TO MSG01 GO TO 5040 GO TO 5100 GO TO 5100 GO TO 5100 GO TO MSG02

5100

959

358

5200

049

60 10 5020

5010 IF (ISWITF .EQ. 0 .OR. ISWITF .EQ. 1)
IF (ISWITF .EQ. 3) 60 TO 5240
ASSIGN 5020 TO MSG02
60 TO 5290

IF ((IFGPP-EQ.4),0. (ISUBHOR-NE.51) GO TO 5001

2005

245

929

MSG8 = 1 IF (ISUMMOR .NE. 4) GO TO 5220

5210

648

MS69 = 1

670

5230 455164 5010 10 M5602 (5010.5020)
5230 455164 5010 10 M5602 (60 10 520)
5240 455164 5020
60 10 5100

• END MESAGE SECTION
600 CONTINUE
1F (15MIF .EQ. 0) 60 T
1F (15MIF .EQ. 2) GO TO PROHIF = RSUHF 60 10 50 T

680

675

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L00PS 155 166	LABEL 10 20	INDEX	FROM-TO 63 65 67 69	LENGTH SB SB	PROPERTIES INSTACK INSTACK					
0000	COMMON BLOCKS KANO	LENGTH 24	MEMBERS - 8	JIAS NAM DESIGN UFI FLEXPT IFGRP ISUBCBR	LENGTH)		ICONFIG(1) 10FP (1) RIGUPT (1) SMOIST (1) ISUGHOR(1)	2 TPAFF (1) 5 IPAVT (1) 8 AVINOR (1) 11 SUSMOD (1) 14 EMOIST (1)		
	FL46 PLOCKR	-6	z o c r	COMS (4) IFLAG (1) COMPF (1)			COMPR (1)			
			2000	SLSPENF FLSP FRSURF PRFLTF		4 - 0 5 6	SLSDBTF(1) SLSPENR(1) RSUBF (1) FRSUBR (1) FRSUBR (1)	5 SLSOBTR(1) 8 FLSF (1) 11 RSURN (1) 14 PPGSTF (1)		
	PLOCKC BLOCKD	71						2 WESS (11) 15 McoSM2 (1)		
	3LOCKE	, -	cnc	PVTFLX (1) IRIGDNA(1) ISWITX (1)		-	PVTRG0 (1)	2 IFLEXNA(1)		
EQUIV CLASSES MSGSW1 MESS	LASSES MESS	LENGTH 11	MEMBERS - B	- Blas NAME(LENGTH) 0 MSG1 (1) 3 MSG4 (1) 6 MSG7 (1) 9 MSG10 (1)	ENGTH)	1111	MSG2 (1) MSG5 (1) MSG8 (1) MSG1 (1)	2 MSG3 (1) 5 MSG5 (1) 8 MSG9 (1)		
STATISTICS PROGRAM C	ATISTICS PROGRAM LENGTH CM LAMELED COMM	ATISTICS PROGRAY LENGTH CM LABELED COMMON LENGTH	42568 1028	2222						

SUBROUT	SUBROUTINE SUBPEN 74/74 OPT=0 ROUND=0/ TRACE FTN 4.6+420 09/0	11/20/60	13.54.00
-	SUBROUTINE SUBPEN (1,U.V) COMMON/SLOCKC/MSGSW1,1IPAVT,MESS(11),ISWITF,ISWITR,MSGSW2,MSGSW3 COMMON/KARD/DESIGN-ICONFIG-TRAFF.DF1,TDFP,IPAVT.		
w	1 FLEXPT.RIGDPT.AMINOR.IFGRP.SMOIST.SUBMOD.ISUBCBR. 2 ISUSHOR.HMOIST.DRYWT.CBR8.CBR10.COMS(4) .LCIND.OVR COMMON/TLAG/ IFLAG 10 R = SMOIST / BMOIST IF (R .LT. 2.) GO TO 20		
10	~ = = = =		
15	SS 4 0		
50	40 S1 = T * 65.775. S2 = T * 60.775. A = R - 61.71161 G0 T0 30 50 U = T * 50.775.		
\$2	60 TO 80 60 U = T * 60.775. 60 TO 80 70 U = T * 65.775. 80 V = U/4.		
30	IF(IELAG.EQ.2) x=U+RIGDPT IF(IFLAG.EQ.1) x=U+FLEXPT IF(x,Ge.72.) GO TO 90 IF(u, GE. 4.) GO TO 100 V = 1.		
35	U = 4. GO TO 90 MSGSW2 = 1 100 CONTINUE RETURN END		

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DEF INED

REFS REFS REFS REFS REFS REFS

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SN TYPE PEAL PEAL PEAL PEAL PEAL

ENTRY POINTS
4 SUBPEN
VARIABLES SN
162 A 100 A 100 R
16 RMOIST
21 CBRB
22 COMS
0 DESIGN

REFERENCES

SYMBOLIC REFERENCE MAP (R=3) DEF LINE

REFS 3 30  REFS 3 30  REFS 3 30  REFS 3 30  REFS 5 6 29 30  REFS 5 6 29 30  REFS 5 2 6 FINED 36  REFS 5 7 9 11 12  REFS 6 3 7 0 FFINED 14 19  REFS 7 1 0 FFINED 15 20  REFS 7 3 29  REFS 7 3 29  REFS 6 3 3 29  REFS 7 3 29  REFS 6 3 3 29  REFS 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	REFS 3 30  REFS 3 30  REFS 3 3 30  REFS 3 3 30  REFS 2 3 30  REFS 3 30  REFS 3 30  REFS 3 30  REFS 3 3 30  REFS 3 30	RELOCATION
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SUBROUTINE RSUBG	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	SN TYPE INTEGER	INTEGER	FIT	TYPE	v 1 1 1 1
SUBROUT	SYMBOLIC	Y POINTS		IFGRP RSUA	VES TAPES	SINDEX	LABEL
	J,	ENTRY POINTS	VARIABLES 0 DI	00	FILE NAVES TAPE	EXTERNALS OINDEX	STATEMENT LABELS 23 100 40 110 51 120 57 200 105 220 113 300 1141 320 141 320 153 410 153 500 256 510 F STATISTICS

(72-71)	1 0EF INED 0EF INED 0EF INED
((14-41))	DEFINED DEFINE DEFINE 2*3
610 (X1)	ัก _ต ี ผู้ก  ุง ง ง
Y1.Y2.Y) ALOG10(X2)-ALO	DEFINED REFS REFS REFS REFS REFS
FUNCTION DINDEX(X1.X2.Y1.Y2.Y) INTGER Y1.Y2.Y DINDEX = ALGGIO(X1).+((ALGGIO(X2)-ALGGIO(X1))*(Y-Y1))/(Y2-Y1) RFTJRN END	REFERENCES  WELOCATION  F.P. F.P. F.P. F.P.
FUNCTI INTEGE DINDEY RETURN END	SYMBOLIC REFERENCE MAP (H=3)  OINTS DEF LINE REFER  DINDEX 1 PEAL  XI PEAL  XI PEAL  XI PEAL  XI PEAL  XI PEAL  YI INTEGER  YI INTEGER
- v	SYMBOLI ENTRY POINTS 5 DINDEX VARIABLES 37 DINDEX 0 x1 0 x2 0 y2 0 y2

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FUNCTION DINDEX 74/74 OPT=0 ROUND=*/ TRACE

TYPE ARGS REFERENCES
REAL 1 LIBRARY 3*3

EXTEMNALS ALOGIO 32

404

STATISTICS PROGRAM LENGTH

FUNCTI	FUNCTION FLXPET 74/74 OPT=0 ROUND=0/ TRACE	A NTA	FTN 4.6.420	11/20/60	09/02/77 13.54.00	PAGE	-
- v	FUNCTION FLXPET(DI.CBR) INTEGER DI 60 TO (10.20.30.30.40.40.50.60.60.70).DI 10 FLXPET = 0.5	10.					
,	20 FLXPET = 1.0 GO TO RO 30 FLXPET = 1.5 JF(D1 F0. 4) GO TO 90						
0	40 FLXPET = 2.0 1F (01 .E0. 5) GO TO BO FE (CBR .EO. 1HX) RETURN FEIXPET = 3.0						
52	So Flyer So Flyer = 2.5 60 TO 80 60 Flyer = 3.0 60 TO 90						
02	70 FLXPET = 3.5 A0 IF(GHR .EO. 1HX) RETURN FLXPET = FLXPET + 0.5 RETURN END						
SYMBOLIC	SYMBOLIC REFERENCE MAP (R=3)						
ENTRY POINTS 5 FLXPET	DEF LINE REFERENCES 1 5 10 13	15 21	23				
VARIABLES SN 0 CH0 0 DI 114 FLXPET	SN TYPE PELOCATION REFS TOTEGER F.P. REFS REAL REFS 16	13 21 2 3 22 DEFINED 18 20	DEFINED 9 4 22	- 52 9	DEF INED 8	-=	7
STATEMENT LABELS 27 10 37 30 37 30 46 40 66 60 72 70 75 70	DEF LINE REFERENCES  6 3  1 2 4 3  11 2 4 3  16 2 6 3  17 2 7 9	21	2				
CTATICTION							

1158

STATISTICS PROGRAM LENGTH

```
WHITE (1.7100)
WHITE (1.7110)
WHITE (1.7110)
TOOM DOWLD (1.4.43X.37HTWIN ASSEMBLY - TRICYCLE GEAR. 20 IN.)
7100 FOPMAI (114.43X.37HSPACING. 100 SQ.IN. CONTACT AREA
7110 FOPMAI (114.43X.10HEACH WHEEL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7120 FORMAT (14.43x,37HTWIN ASSEMBLY TRICYCLE GEAR, 37 IN. 17130 FORMAT (14.43x,37HSPACING, CONTACT AREA 267 SG.IN. EACH) 7140 FORMAT (14.43x,05HWHEEL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WRITE (1,7080)
FORMAT (140.43X,37H5INGLE WHEEL-100 SO.IN. CONTACT AREA )
               COMMON/KAND/DESIGN.ICONFIG.TRAFF.DFI.TDFP.IPAVT.
FLEXPT.RIGDPT.AMINOR.IFGRP.SMOIST.SUBHOD.ISUBCBR.
ISUBHOR.HMOIST.ORYWI.CBR8.CBR10.COMS(4) .LCIND.OVR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7150 FOHMAT (1140.43X.37HSINGLE TANDEM ASSEMBLY - TRICYCLE
                                                                                                                                                                                                                                                                                                                                                                                                     7050 FORMAT (1H *15% -18HTHAFFIC AREA TYPE *AI)
199 WAITE (1,7070)
7070 FORMAT (1H *15% -28HDESIGN LOAD CONFIGURATION = 1)
191 F (1000 16 .60 .2) 60 10 200
15 (1000 16 .60 .3) 60 10 200
15 (1000 16 .60 .4) 60 10 200
15 (1000 16 .60 .4) 60 10 200
15 (1000 16 .60 .4) 60 10 200
16 (1000 16 .60 .8) 60 10 250
17 (1000 16 .60 .8) WRITE(1,7079)
18 (1000 16 .60 .8) WRITE(1,7079)
                                                                                                                                                                                                                                                                                                                                                                         GO TU 199
WRITE (1.7050) TRAFF
SUBROUTINE OUTA(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPITE (1.7120)
WPITE (1.7130)
WPITE (1.7140)
                                                                    7000 FORMAT (1H1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              210 WHITE (1.7090)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (1,7150)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60 10 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60 10 270
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        230 WHITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         200
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                                                                                                                                                                                                                                                                                                                                                                                           198
                                                                                                                                                            10
                                                                                                                                                                                                                                                   15
                                                                                                                                                                                                                                                                                                                                      50
                                                                                                                                                                                                                                                                                                                                                                                                                              52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         35
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45

20

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FTN 4.6+420

OPT=0 ROUND=+/ TRACE

74/74

SUBRCUTINE OUTA

7345 FORMAT (14 .15x.20HMINOR CLASSIFICATION)
350 WRITE (1.7350)
7350 FORMAT (140.10x.AMSUBGRADE)

IF (0VR .FO. 1HX) WRITE (1,7335)
WRITE (1,7340) RIGDPT
IF (AMINOR .NE. 1HX) GO TO 350

WRITE (1.7345)

340

110

WRITE (1.7330) FLEXPT

330

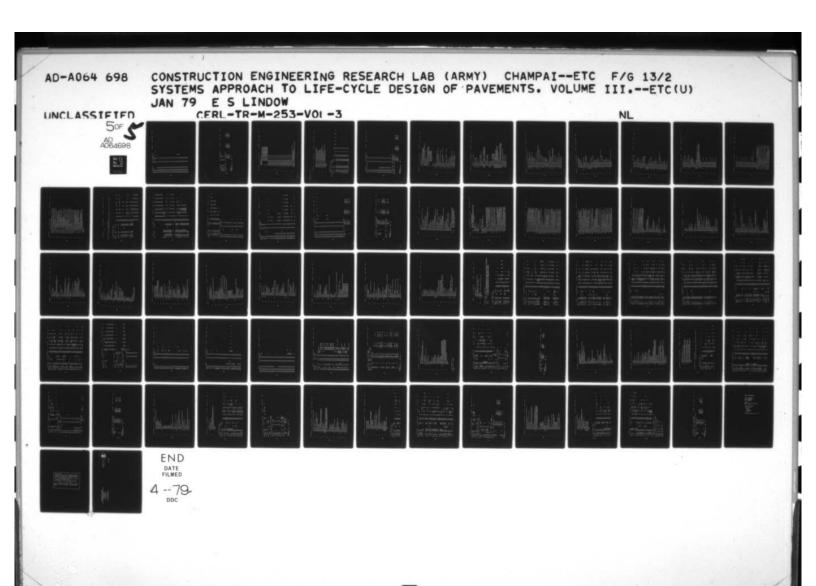
SYMBOLIC REFERENCE MAP (H=3)

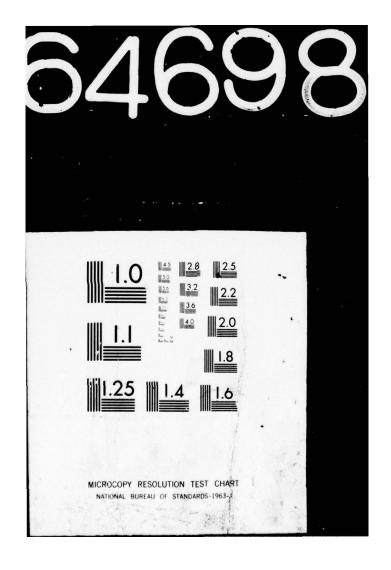
HEFEHENCES 140

DEF LINE

ENTRY POINTS

										13							-																																			
											9	200	9.0	101	110	100	001	20				132	151																					6	10							
										2 .	16	55	50		115	1 30	130					131																						3.6	*							
									,	- 1	* (	1 0	2 0	56.	113	201	96			0.7		130	000	21																				1.1	c							
							87	:	101	ın i	62	7	500	06.	131	707	22	13		40		120	DEFINED		108	100	121		06	23	)													44	00							
	110	4.1	155	152	11	82	96	146		I/O REFS	5	D C	200		104	027	110	34	115		136	128	200	2	101	104	119	117	00	1.8														63	23							
	~	,,	~	2	2	2	~	~ (	~	- 6	02	- 5	500	*	108	17.6	0	23	, ~	, ,		, ,	0		~	~	^	2	~	. ~														77	0					106		
	DEFE	SEES	REFS	REFS	REFS	REFS	REFS	REFS	PEFS	DEF INED	5	200	200	200	101	100	0 1 10	32	RFFS	PEFS	0 1 10	REFE	DEFE	REFS	REFS	REFS	REFS	REFS	REFS	REFS		000000000000000000000000000000000000000	ACT CHENCES	2	CES									30						103		
	NOTE	00	90	80	80	30	30	30	90								App		00	00	00	S O	)	90	40	30	90	00	90	Ot	SEE AHOVE	3141 . 33	DET LINE		REFEREN	11	22	100	000		30	32	25	35	0 4	0	200	96	16	96	110	1
	KELUCALIUN KABD	KARD	KARD		ARPAY KA	KARD	KARD	KARO	KARD								W W		KAI	KARD	×	KARD		AX	KARD	KARD	KA	KARD	KA	KARD	AS FILE NAMES. SEI		Z INTRIN		DEF LINE	53	ζ;		0,4	÷ u	1.4	1 0 4	75	200	. 0	0.0	66	104	107	110	113	-
-	REAL	PEAL	PEAL	PEAL	REAL	PEAL	PEAL	PEAL		INTEGER							THIEGED		INTEGER	TNTEGER	TNTEGER	INTEGER	TATEGER	INTEGER	PEAL	PEAL	PEAL	PEAL	DEAL	PEAL	USED AS F	100	NO TYPE																			
	MINOR	PMOIST							FLEXPI								TCOMF 1G		1FG2P	TPAUT	ISHACHD	NOHHOK!	ITEST	LCIND	940	190919	151045	Q0#A112	TOFP	TRAFF	VAPIABLES	SULT TOMO	SHIFT		ATEMENT LAHELS	**	7.7.	910	220	220	240	250	250	270	000	200	310	320	330	140	350	
1041041	ř							17									-		11		14	15	1313		27		12	13	4	2		TNI TNE			STATEME	0 5		200		137	134	177	100	143	174	200	215	225	231	247	247	





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PAGE						0	S. 3	;													
13.54.00						11	33	•													
11/20/60						15	16.7														
FTN 4.6+420	61VEN)	OMPATABILITY) ODE/TRAFFIC AREA)				170 REFS 13	27 29		9 6	20*3	20	<b>5</b> 2	28	30	3.5	36	80,7	45	7 4	8 4	05
	(IH .5x.37HINCOMPATABLE FROST CRITERIA GIVEN) (IH .5x.2AHINVALID PAVEMENT TYPE CODE) (IH .5x.2AHINVALID PAVEMENT THICKNESS) (IH .5x.1AHINVALID PANCE CODE) (IH .5x.1AHINVALID PROST GROUP) (IH .5x.13HINVALID FROST GROUP) (IH .5x.25HSUHGRADE MOISTURE MISSING) (IH .5x.22HINVALID PROSE WOILD MISSING) (IH .5x.22HINVALID HORE VODE) (IH .5x.22HINVALID HORE VODE) (IH .5x.22HMISSING RASE MOISTURE CONTENT)	.5x.40HBASE MOISTURE/DRY WEIGHT INCOMPATABILITY) .5x.AHMINVALID DRY WEIGHT) .5x.1HMINVALID CBR) .5x.1HMINVALID CBR) .5x.44HINCOMPATABLE CONFIGURATION CODE/TRAFFIC AREA) .5x.24HINVALID FLEXIBLE OVERRIDE)				DEF INED	. 52				REFS 3										
74/74 OPT=0 ROUND=4/ TRACE		(14 .5x.40HBASE MOISTUR (14 .5x.18HINVALID DRY- (14 .5x.24HBASE CRR INC (14 .5x.24HBNVALID CBR) (14 .5x.44HINCOMPATABLE (14 .5x.25HINVALID FLEX UE		(R=3)	HEFERENCES 76	RELOCATION F.P.		BLOCKA		ARMAY BLOCKA	PLOCKA	800ck4	BLOCKA	BLOCKA	BLOCKA	BLOCKA	BLOCKA	BLOCKA	HLOCKA	BLOCKA	BLOCKA NAMES. SEE ABOVE
NE OUTB		1156 FODWAT (1H 1166 FODWAT (1H 1176 FODWAT (1H 1196 FODWAT (1H 1206 FODWAT (1	RETURN END	SYMBOLIC REFERENCE MAP (R=3)	DEF LINE	SN TYPE		INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	WAPIABLES USED AS FILE NAMES.
SURROUTINE OUTB	6 &	o 7.		SYMBOL IC	ENTRY POINTS	VARIABLES S		ATIVA			3 T T T T					14 KW174			20 K#110		-

REFERENCES 14 14	16 18 20	25.5	24	28	30	34	36	07	27	94	13	15	17	21	25	29	33	35	39	1-1	545	147	51	50 52	- BIAS NAME (LENGTH)	- BIAS NAME(LENGTH)  0 KWITA (1)  1 KWITB (1)  5 KWITE (1)  9 KWITJ (1)  10 KWITK (1)
																										X X X X X X X X X X X X X X X X X X X
																										~~
									9																	KWITF CD

4168

STATISTICS PROGRAM LENGTH CM LABELED COMMON LENGTH

SUBROUTINE OUTC

~

	9620 FOLMAT (114.72%.F4.1)
	WRITE (
290	•
	WRITE (1.94.10) RSUBR WRITE (1.91.25) IF (MGG) 1.75 1) GO TO 4.70
562	TE (1.8450)
	470 WAITE (1.9410) PVTRGD
300	WPITE (1.9410) FI
305	ANDITE (1.A410) B
	8210 FOWAT (14+,73x,24NA)
310	BESON FORMAT (140.2% AZEMNA - DENOTES THAT VALUES FOR THE PAVEMENT .  1 344AN) METHOD INDICATED DO NOT APPLY. )  8240 FORMAT (/10x."THE ABOVE STRUCTURAL DESIGN IS A TYPICAL SECTION FOR 1 ILLUSTWATIVE PURPOSES ONLY. THE ACTUAL STRUCTURAL LAYERS AND THI
315	CKARSSESS DEPEND ON THE DESIGN INPUT.")  CHECK MESSAGE SWITCHES  500 WPITE (1.4230) WRITE (1.4240) WATTE (1.4240)
320	- 0
355	16 18 18 16 16
330	WATTE (1.4522) WATTE (1.4523) WATTE (1.4524) WATTE (1.4525) 520 IF (M4G3 *NE * 1) 60 TO 530
315	WRITE (I WRITE (I WRITE (I WRITE (I
340	WATTE (1.4531) WHITE (1.4532) S40 IF (MSGS.ANE.1) GO TO S50 WRITE (1.4530) IA

13.54.00						
11120160					÷÷÷•••	
FTN 4.6+420				3) GO TO 1000	##ITE (19454) ##	H513 FORMAT (14 .10x.44HDEPTH OF FROST PENETRATION, OR BY (2) PROVID.  1 JHING GRADULE)  4514 FORMAT (14 .10x.44HTRANSITIONS AT ABRUPT CHANGES IN SUBGRADE.  4521 FORMAT (14 .10x.44HTRANSITIONS AT ABRUPT CHANGES IN SUBGRADE.  4850 FORMAT (14 .10x.44HTMIT COMBINED THICKNESS OF PAVEMENT AND BASSITED TO 72 INCHES)  4851 FORMAT (14 .10x.44HTMIT COMBINED THICKNESS OF PAVEMENT AND BASSITED TO 72 INCHES)  4852 FORMAT (14 .10x.42HZ) POURING OF CONCRETE IN 15 SUBJT. SLABS.)  4853 FORMAT (14 .12x.43HT) USE OF A HIGH MOISTURE RETEWTION UNIFORM)  4854 FORMAT (14 .12x.43HT) FINE SAND FOR MASE MATERIAL.)  4855 FORMAT (14 .12x.43HT) FINE SAND FOR PASE MATERIAL.)
OPT=0 ROUND=#/ TRACE				IF .NE. 3)	SREATER FROG DESIGN ACCEPTAE	YS AT ABB YS AT ABB FILON SHOU BINEO THI BE INFORCE S OF CONG A HIGH N AND FOR P
/*=QN	570	0 10 580	60 10 800	60 TO 900	FLEXI IS ( IS ( EAVE) ITHIN	SITION TOPPAN TOPPAN TOPPEN SE OF SE OF SE OF SE OF SE OF TOPPEN SE OF
ROD	00 10 560	60 TO 580 60 TO 600 60 TO 70	₹ 09	AND.	TE STEE	CONS CONS VES VES VES VES VES VES VES VES VES VE
PT=0			2		34)	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
74/74 (	WRITE (1.4531) IF (MSG6 NE. 1) IF (MSG6 NE. 1) WRITE (1.4541) WRITE (1.4542) WRITE (1.4520) WRITE (1.4621) IF (MSG7 NE. 1) WRITE (1.4621)	MAGG NESS)  IF (MSGG NE 1)  MIRE (1,856)  MIRE (1,856)  MIRE (1,852)  MIRE (1,852)  MIRE (1,857)  MIRE (1,857)  MIRE (1,857)  MIRE (1,857)	WAITE (1.8581) WAITE (1.8582) WAITE (1.8582) WAITE (1.8090) IF (MSG10 .NE.		WHITE (1.4814)  FORMAI (14 .15x.454* FLEX FORMAI (14 .15x.454* IS FORMAI (14 .15x.454* IS FORMAI (14 .15x.454* FERRED ZOHIF NON-UNIFORM HEAVE) FORMAI (14 .10x.444HS WITHIN	AT (14 .10x,44H0EPTH 0 1]HHNG GBADUAL) AT (14 .10x,44HTDANSIT 1]HCONDITIONS.) AT (140.10x,44HCONSIDE AT (140.10x,44HCHIT 0 AT (14 .12x,44HLHIT 0 AT (14 .12x,42HLHIT 0 AT (14 .12x,42H2 POUF AT (14 .12x,43H3 USE AT (14 .12x,43H3 USE AT (14 .12x,43H3 FINE
	WARITE CITY OF THE	WATER CITY OF CALL OF	WRITE (1) WRITE (1) WRITE (1) WRITE (1) IF (MSG)	TAN CAN CAN CAN CAN CAN CAN CAN CAN CAN C	FORMAT FORMAT FORMAT FORMAT FORMAT FORMAT 197	F OR WALL F O D WALL F
DUTC	550	580 1	607	00 6	8580 F 8581 F 8587 F 8510 F 8511 F	4513 F 4514 F 8520 F 8521 F 8524 F 8524 F
SUBROUTINE OUTC						
•	345	355	365	370	380	395

09/02/77 13.54.00 FTN 4.6.420 74/74 OPT=0 ROUND=#/ TRACE SUBROUTINE OUTC

END

CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

45CD 314 TOTAL RECORD LENGTH IS GREATER THAN 137 CHARACTERS. IT MAY EXCEED THE 1/0 DEVICE CAPACITY.

SYMBOLIC REFERENCE MAP (R=3)

REFERENCES

DEF LINE

ENTRY POINTS

206	267		781	220	79 1114 131 142 170 171 170 170 170 170 170 170 170 170
178	178		767	902	75 90 111 130 141 176 169 201 201
174 DEFINED	175 DEFINED	205 266	205 266 175	219 280 236	301 102 103 103 103 103 103 103 103 103 103 103
149	305	199	265	146 218 279 235	200 1111 123 123 124 124 124 124 124 124 124 124 124 124
146 237 236	302	124	124 125 127	126 144 145 172	1/0 REFS REFS 107 121 138 150 164 198 198
130	130 283	116	123 123 DEFINED	DEFINED 143 143 171	171 85 106 110 137 149 163 197 208
126	227		= ~ ~ ~	01 II.E.E.	3 93 117 117 116 116 116 116 116 116 116
REFS 208	REFS REFS REFS 269		REFS REFS REFS REFS	202 202 203 203 203 203 203 203 203 203	REFS DEFINED 92 116 134 143 161 177 197
RELOCATION	ABLK3 KARO	KAAPO KAPO KARO HLOCKB KARO KARO	KARD BLOCKH BLOCKB BSRLK	BSBLK? KARU BLOCKH BLOCKH BLOCKB	ь. Р. Р.
R	ARHAY	АВВА			
SN TYPE PFAL	PEAL REAL PEAL	9 E A L 9 E A L 9 E A L 9 E A L	PEAL PEAL PEAL PEAL	PEAL PEAL PEAL PEAL	PEAL INTEGER
	AMINOR B		FCOMPF FCOMPF FOE		# 8 5 UB R
VARIAHLES 3670 A	3671	2220-206	7 2 6 1	0 4527	20

	SUBROUTINE	INE OUTC	74/74	0PT=0 ROU	OPT=0 ROUND=4/ TRACE		FTN 4.6+420	420	11/20/60	13.54.00	PAGE	10
VARIABLES		SN TYPE	3	RELOCATION								
					215	516	217	218	221	222	223	224
					526	228	556	230	231	232	233	234
					215	238	239	242	243	546	247	5+6
					251	253	255	257	258	529	260	192
					242	564	592	268	549	270	272	273
					276	275	276	277	278	279	242	283
					284	285	287	289	290	291	262	293
					295	208	500	300	304	305	316	317
					916	221	333	222	326	125	101	328
					010	120	326	333	700	316	316	338
					600	250	100	200	2776	37.6	27.5	9.75
					339	340	345	343	***	240	200	2 0 0
					349	320	352	353	354	356	357	378
					360	361	363	364	365	366	347	369
					371	373	374	375	376	377	455	
3643	IA	INTEGER			REFS	345	DEF INED	20				
3664	1	INTEGER			REFS	338	DEF INED	21				
0	IATE	INTEGER		HSHLK	REFS	0						
3645	-	INTEGER			REFS	334	DEF INED	22				
-	_	INTEGER		KARD	REFS	11						
=	_	INTEGER		KARD	RFFS	11	33	64	24	54.2	56	
2	-	INTEGER		HLOCKD	REFS	1	109	2•133	2.157	195	2.210	2.227
12		INTEGER	ARRAY	AHI K3	REFS	^						
-	-	TNTEGED		BLOCKC	RFFS	•	20	11				
	-	TATELED		KARD	PFFS	-						
•	-	INTEGED		BI OCKO	SEES		; ;	20135	159	256	11606	248
14		TATEGEO		2400	25.50		:					
	• •	2000		2047		::	;;		0			
	••	2000		0200	2 2 2 2 2	: `	2	2000		6	60	6
13	-	INICOER		BLUCKE	2	0	0	05.20		100	200	000
					126	146	174	184	185	186	902	022
					752	315	:		÷		•	
2	124114	INTEGER		HOCKC	KEFS	•	82	62.2	90	24.2	7	06
					16	92	93	127	147	175	544	542
					546	247	267	281	305	372		
					DEF INED	34						
•	ISWITX	INTEGER		BLOCKE	REFS	<b>c</b>	53					
56	CCIND	INTEGER		KARO	REFS	=						
~	E SS	INTEGER	ARHAY	BLOCKC	REFS	•	11014					
•	145954	INTEGER		BLOCKC	REFS	9	113	197	528	DEF INED	69	
11	245954	INTEGER		BLOCKC	REFS	9	51	137	212	273		
50		TATEGER		HLOCKC	REFS	ç	191	558	290			
3646		INTEGER			REFS	20	DEF INED	31	77	9		
3647		INTEGER			REFS	29	DEF INED	38	94	63		
2		INTEGER		BLOCKC	REFS	14	320	DEF INED	48			
13		INTEGER		BLOCKC	REFS	14	27	368				
*	1195	INTEGER		BLOCKC	REFS	14	27	165	176	594	303	370
6		INTEGER		HLOCKC	REFS	14	326	DEF INED	51			
1		INTEGER		HLOCKC	REFS	14	333	DEF INEO	67			
S		INTEGER		HLOCKC	REFS	14	337	DEF INED	24			
4		INTEGER		HLOCKC	REFS	14	341	DEF INED	55			
1		INTEGER		BLOCKC	REFS	14	345	DEF INED	52			
10		INTEGER		HLOCKC	REFS	14	351	DEF INED	92			
11	#56A	INTEGER		BLOCKC	REFS	14	355	DEF INED	58			
12	695	TNTEGER		HLOCKC	REFS	14	359	DEF INED	٠,0			
27	-	PEAL		KARD	HEFS	=						
1.5		DE AL		HLOCKH	REFS	n						
50	PP0918	PEAL		ВГОСКВ	HEFS	6						
11		PEAL		HOCKH	REFS	3						

=	691	173																																				
PAGE	166	236																																				
13.54.00	3	233	301	236	301	280																																
11/20/60	17	141	862	231	236	275																																
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74/74 OPT=0 ROUND=*/ TRACE	MEMBERS - RIAS NAME (LENGTH)	A LOTGONA CLO	0 ISWITX (1)	0 IRTE (1)	0 FDEF (1)	0 DESIGN (1)	3 OFI (1)	6 FLEXPT (1)	9 IFGMP (1)	OX.	15 DRYWT (1)	18 COMS (4)	MEMHERS - BIAS NAME (LENGTH)	0 MSG1 (1)		6 MSG7 (1)			34724 1978	
SURMOUTINE DUTC	COMMON PLOCKS LENGTH M	ALOCKO 4	PLOCKE 1	BSBLK 2	PSBLK2 1	KARD 24							EQUIV CLASSES LENGTH ME	_				STATISTICS	PROGRAM LENGTH	CM LAMELED COMMON LENGTH

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1590 FORMATIZZE, 12,39%,12,41%,F11.2) 1700 FORMATILLIZZX. "THIS STRATEGY IS APPROPRIATE FOR USE WITH SEVERAL F IESIGN "/

ILEXTALE OFSIGNS "/)

1710 FORMAT (2x.12.ax.F11.2.31x,F11.2.9x,F11.2.9x,F11.2.12x,F11.2)
1720 FORMAT (4x.12.27x,12.30x,F11.2.30x,F11.2.)
1721 FORMAT (4x.12.27x,12.30x,F11.2.30x,F11.2.)
1721 FORMAT (4x.12.27x,12.30x,F11.2.30x,F11.2.)
1.4 AUTHER TO PARENTHESES FOLLOWING FLEXIBLE OR RIGID OVERLAYS"//.2x.
1.4 AUTHER TO PARENTHESES FOLLOWING FLEXIBLE IS THE THICKNESS OF BA
1.5 MATHAIAL IN THE OVERHAY SYSTEM!///2x."FOR RIGID. P IN PARENTHESE
1.5 MEANS PARTIAL BOND AND U MEANS UNHONDED"//)
1.72 FORMAT (4x." SINCE THE EXISTING PAVENENT IS IN A STATE OF COMPLETE.
1.72 FORMAT (4x." SINCE THE EXISTING PAVENENT IS IN A STATE OF COMPLETE.
21"/** RECONSTRUCTION BE INVESTIGATED - 1.E. THAI A LIFE.CYCLE OPTIO

1800 FORMAT (/////)

545

NERTH=0

550

K4=[NLY5T*MLY5T*NB+1)*NUMS

IF(NLY5T*EQ.0) K4=(MLY5T*NB+1)*NUMS

IF(NLY5T*EQ.0) K4=(NLY5T*NB+1)*NUMS

IF(MLY5T*EQ.0), A*(NLY5T*EQ.0)) K4=(NB+1)*NUMS

LPCT=K4

WRITE (W.992) K7.K4 D= YH1SE

KOTTOOM . NOHH . NB . 7 KI=IMIX

240

K3=K2.5 K2=CCC5T(K2.1,2) +CCC5T(K2.1,1)-1 K3=CCC5T(K3.1,2) +CCST(K3.1,1)-1-K2 WHITE (W.990) K2.K3 WHITE (W.910) EAMTHWK.DRAIN

545

WRITE (W.900) ((CCCST(I.J.K),KR1,2),JE1.L3) DO 151 [=1,L5 L3=INT(CCCST([,1,1),.1) LS=NCOM·NSBB·NB·12

270

XINTRS=THST CONTINE 151

275

00 1 1=1.L5 L9=INT(CCCST(I.1.1)+.1) L9=LW-NE.0) GO TO 60 LR=LR=1 GO TO 1

406

542

CALL DATE (A) U =

245

	PROGRAM RL	71/71	0PT=0	OPT=0 ROUND=+/ TRACE	TRACE	FTN 4.6.420	027-9	09/02/17	13.54.00
	40	1=(7)(7)=1							
	1	CONTINUE							
290		00 > 1=1.L2							
		J=LA							
		L=1							
		L6=INT (CCCST (L12.1.2)1)	112010	01.10					
562		00 3 K=1+J							
		(1)=(1)(K)	2						
		L4=INT (CCCST (L11.1.2) 1)	111111	1					
300		60 10 3	<b>7</b> 01 0						
	4	M=[10(K-1)							
	•	L=2							
	•	IF (1.6F.1.6) M=1 12	121 12						
305		N=1-INT (CCCST (M-1.2) 1) -1	(M.1.2	•:1:•1					
		N=N-1							
		K=N+1 SI OUF (1) = (CCCS 1 (M K 2) = CCCS 1 (M M 2)) (CCCS 1 (M K 1) = CCCS 1 (M M 1))	X 47 13.	19000	2217116 14 14	CT IN K. 17.	11 N 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		VINTEM (1) = CCCST (M,N,2) - SLOPE (1) • CCCST (M,N,1)	STIMON	2) -SLOPE	(1) *CCCST (M.)	Z-17-17-17-17-17-17-17-17-17-17-17-17-17-	CCSI (Memoria)		
310		LIMITL (1) = INT (CCCST (M.N.1) +.1)	(CCCST	H.N.10.	_				
		LI*[1:(])=[N]	CCCST	M.K.13.	=				
	•	CONTINUE	YINTER	I) SLOPE	(I) TIMITE (I	I . LIMITU(I)			
	v	WPITE (7.1000)	-						
315		IF ((1 -EST. EQ. 2) . AND. (JREST. EQ. 2)) 60 TO	ONA. 15	( JREST .EC	01 09 ((2.	27			
		WRITE (7.1033)							
		DO 31 13=1. [CHD	90 11	•J6=1•L5					
		WRITE (7,1038) CHRC13) (XEP(15,13), 15=1,15)	CHBC	I) - (XFP ( IS	121 - 15 - 151 - 1	13			
320	18	CONTINUE							
		WRITE (7.1035)							
		WPITE (7-1037) (TM(J6) -J6=1+LS)	(TM(J6	.J6=1.LS					
	22	TE CIDECT FO	S AND	TOPECT FO	311 60 10	80			
325		WPITE (7.1036)	21.4	1 JAE 31 .E.	01 00 115.	0			
		WPITE (7.1040) (TM(J6),J6=1.LS)	(TMIJ6	.J6=1.LS					
		WRITE (7.1041) XK. (TMPQZ (JB) . J8=1.LS)	XK. CT	PQ2 (38)	J8=1.LS)				
	28	WPITE (7.1000)	200						
330	1361	WPITE (7.1741)	CC 1 • 200	01.10					
		GO TO 1354							
	1352	WPITE (7.1343)							
		60 TO 1354							
325	1353	GO TO 1341							
	1354	WATTE (7.1744)							
		00 1340 J1=1.NUMS	NUMS						
		J7= M00(J1)	1000	101 11 120	12.				
340	1340		201012	2001011	11001-300				
	1361		XSTR.	IK . XCBR . AF	ZEA.				

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PROGRAM RL

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FTN 4.6.420	. 11. [xy)				JBOND (MA) = 1 H						
74/74 OPT=0 HOUND=#/ TRACE	CALL PREVENZ(FIMO.FSTRT.NFSTRT.DTOTAL.MMMM.TT.IXY) D0 5 1=1.wNnN IF(I.GT.1) G0 T0 6 STRT(1)=FSTRT(1) G0 T0 79 STRT(1)=FSTRT(1) FO T0 79	CONTINUE CONTINUE WRITE(Z-1000) WRITE(Z-1500) MMMM IF (NNNN-E0.0) GO TO 7	00 4 MA=1.NNNN J404D (MA)=1H [F(TMO(MA.1).6T.1.99) 60 TO 9 NNN=4 IF(TMO(MA.3).6T.2.99) NNN=5	IF ((Ma.E.D.1).A.(LLL.ED.2)) NNN#1 IF ((Ma.G.F.1).A.(TMO(MA-1.1).GT.1.99)) NNN#1 GO TO 10 NNN=7 CONTINUE	IF (NNY, EU.S) JEOND (MA)=1HU IF (NNY, EU.S) JEOND (MA)=1HP IF (ITY = EO, E) A. (JHEST, EO, E) A. (MA, EO, 1)) IF MMM=1NT (CCCST (NNN, 1, 1) - 1) - 2)	IF (IM) (A4.2) -GE.CCCST (NNN.KKK.1)) 60 TO 12 CONTINUE CONTINUE IL INE (MA) = INT (CCCST (NNN.1.2) +.1) +KKK-2 IYE 42 (MA) = INT (STRT (MA) +.1)	INCHES (MA) = INT (TMO (MA.2) *100.+.001) Ma=W'IN.1 IL I'VE (MA) = INT (CCST(7.1.2) *.1) IF (WY.N.E.O.0) GO TO 153 IYE & WIMD = JDL-1-STHT (NNNN)		YEA4CA1=0.0 WMARAT=0.0 JTHICK=0.0 SUMUSE=0.0		00 720 mf = 1.mG If (w0.67.1) G0 T0 13 IF (LLL.EQ.1).AND.([REST.GT.])) G0 T0 260 IF (LLL.EQ.1).AND.([D.EQ.1)) G0 T0 260
PROGRAM RL	2.2	υž		. 0		=2	æ r	153		663	
	94	\$6	3	\$1,	0 4	ç.	667	<b>{</b>	200	205	210

	PROGRAM HL	74/74 OPT=0 ROUND=0/ TRACE FTM	FTN 4.6.420	09/05/77 13.54.00	13.54.00	PAGE
515		IF (LLL.EQ.1) III=NCOM+NSBR+NB+B IF (LLL.EQ.2) III=NCOM+NSBR+NB+II GO TO 241				
	240	If (IREST.EG.2) III=NCOM+NSB4+NB+8 IF (IREST.EG.3) III=NCOM+NSB4+NB4+NB-11 IF (ID EG. 3) III=NCOM+NSB4+NB4-11				
025	261					
525	E1 41	GO TO 14 LLG=INT(TWO(MO-1.1)+.1) IF(LLG.EQ.1) III=NCOM+NSB8-NB+9 IF(LLC.EQ.2) III=NCOM+NSB8-NB+12 M3=INT(CCCST(III-1.2)+.1)				
530	000	COMPUTE MAINTENANCE COSTS FOR THE YEAR				
	670	00 670 MH = L1.L2 IF (LINE(MH).EQ.M3) GO TO 675 CONTINUE				
535	676	MJ=MH+10 DO 5M1 MI = MH+MJ IF(LIMITU(MI).6E.MF) GO TO 685 CONTI'LL				
240	586	XMAINTS FACIOW (LLCARGA (TINIER (MIX-13LOPE (MIX-MC 1)) YEARCST = YEARCST + XMAINT   MAINTS   XMAINT   XMAINT	=			
	000	COMPUTE USER COSTS FOR THE YEAR				
545		LLG=NCOM+NSHH+NH+10 LLG=INI(CCCST(LLG+1+1)++1) IF (LLW+EG+0) 60 T0 29 LFG=IVI(CCST(LLG+1+2)++1)				
920	27.2	00 15 T=LL0.LLP IF(L] =				
555	32	TF (LL W. F2.0) USECOST YEARCST-VEA.COST YEARCST-VEARCOST IF (LYEAR !!!) EQ.MF) GO TO 695 INTHICK = 0 INTHICK = 0 OVER-UM = 0.0				
240	969	IFAR=1 GO TO 712 INTHICK=INT(FLOAT(INCHES(MO))/100.) INTHICK=INCHES(MO)-100*INTHICK				
565	700		(HK)			
210		ון נושאושייבייים מי זיי ככי				

	PROGRAM PL	74/74 OPT=0 KOUND=#/ TRACE	FTN 4.6.420	11/20/60	13.54.00	PAGE
		IOVASE=NCOM+NCHH+NB+7 IFIMST=INT(CCCST(IOVASE,1,2)+,1) LAST=IMSTFINT(CCCST(IOVBSE,1,1)+,1)+1				
575	226	DU CA JOVESE ILISTICASI DU CA JOVESE).GT.IBSTHK) GO TO 227 CONTINUE IOVASE=JOVASE				
		RGOVEHERACTOM* (LLLARRA* (YINTER (IOVBSE) *SLOPE (IOVBSE) * (BSTHK)) OVEHLAY-BOVEHLAY+BSUVER	10VBSE) * [BSTHK))			
ž	S)	CON 1NUE 17P=1NI (140(MO.1)+.1) 17P=1NI (140E0-1) DLC=DLCH 1F (17P=E0-1) DLC=DLCH				1
585		IF(IYP.LE.2) IFAR=IYP IF(IYFAH(MO).NE.MF) IFAR=3 OVERLAYOVEHLAYOLC				
290	217	TEACS = TEARCS   OVERLAT 0SCOUNT = YEARCS   VII. 0 × INTRS) + *NA) IF (INTRICK. EQ. 0) 60 TO 155 IF (HOM! NE. 1H ) 60 TO 713				
		IF (IHSTM: 60.0) WRITE(Z.1512) NA.XMAINT.INTHICK.IARF (IFAR). 10VEMLAY.USECOST.YEARCST.OSCOUNT IF (IHSTM: E0.0) 60 TO 156	CK, IARF (IFAR).			
565		WRITE (2:1510) NA.XMAINT.INTHICK.IAKF (IFAK).IBSIMK.OVERLAY.USECUSI. IYEAUCT.DOGOUNT GO TO 154	SIHK.OVERLAY.USECUS	•		
	113	WHITE (7.15)11) NA.XMAINT.INTHICK.IARF (IFAR).IBOND.OVERLAY.USECOST. 1YEA-CST.USCOUNT 60 TO 154	SOND OVERLAY . USECOST			
009	155	WAITE (7.1710) NA, XMAINT.OVERLAY. USECOST, YEARCST. DSCOUNT CONTINUE	ST.DSCOUNT			
509		WMAINT=WMAINT×XMAINT JIHICK=JHICK+INTHICK WOVEHTY=WOVEHTX+0VEHLAY SIWUSK=SCWUSE+USECOST WTOTAL=WTOTAL+YEARCST				
5		YTOTAL=YTOTAL+DSCOUNT IF(LLL.EQ.1) XTOTAL=YTOTAL YEAVC7=0.0 FORM FOR MAIN FOR TO AGO				
2	720	MANNA-1 CONTINUE GO TO 663				
615	94	CONTYUE WRITE (Z-1001) WRITE (Z-1520) WMAINT.JTHICK.WOVERLY.SUMUSE.WIOTAL.YTOTAL IF (ID.E0.1) GO TO 157 IF (ID.E0.2) WRITE (Z-1400) IF (ID.E0.2) WRITE (Z-1400)	JTAL, YTOTAL			
929	151	CONTANE IF (IPFST.GT.1) GO TO 222 LPHS=1 00 230 LPOG=2.PCT.2				
\$29	230	INTERPORT OF THE STATE OF THE S				

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	PROGRAM PL	74/74 OPT=0 HOUND=*/ TRACE FTN 4.6.420 09/02/77 13.54.00 PAGE
685		DO 20 I=1,кв J=кн-[+] IF(I,5T.1) GO TO 21 КК=3
069	21	IN TO 23 GO TO 22  KK=NCOM*NSBB*NB*7  GO TO 23  MI YOL-KB, AND. (NCOM*NE.0)) GO TO 24
569		
700	% € € € €	<pre>KK=ICW0+7 CONTINUE XTHICK(I)=TMT(J) ITHICK(I)=IMT(J)+1) ITHICK(I)=IMT(COST(KK-1-2)+1) LAST=IFINT(INT(COST(KK-1-1)+1)+1)+1)+1</pre>
705	5 % S C	DO 26 K=IFIRST.LAST  F(LIMITU(K).6E.ITHICK(I)) GO TO 25  CONTINUE  ITYPE(I)=K  FORTANI SH DO 1000 TO COMBITE AND MOTTE DIITBUT FOR EACH LAYER
		SUMINIT=0.  SUMINIT=0.  SUMINIT=0.  SUMINIT=0.  SUMINITED.  SUMINI
200	•	NTHEO SUMEN. TICKEN. WRITE (Z.1410) DO 300 MW=1.KR
251	000 44 02	COMPUTE COST PER SO YARD AND TOTAL COST. FIND APPLICABLE COST PARAMETER  00 400 "X=1.K?  IF(ITYPE("W).E0.LINE(MX)) GO TO 410  CONTINUE  UNITCST=FACTODE (YINTER(WX).XTHICK(WW). SLOPE(MX))
730		•
735		IF (DSCRPT(1,*x), E2,1045ECND COMP) NTH=] IF (DSCRPT(1,*x), E2,1045HIRD COMP) NTH=] IF (DSCRPT(1,*x), E2,1045FIRTH COMP) NTH=] IF (DSCRPT(1,*x), E2,1045FIRTH COMP) NTH=]
740		

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	PROGRAM RL	74/74 OPT=0 HOUND=#/ TRACE	' TRACE	FTN 4.6-420	09/02/77 13.54.00	13.54.00	PAGE
800	3015						
308		SUMCASTICATION =					
910		DOMAINT(J9)=XF XF=EFP HOLDSCM=1SCHEME(JB) ISCHEME(JP)=MXC					
918		15T469 (JB)  15T469 (JB)  15T469 (JB)  MXH=HOLDSTP  HOLDSTP  HOLDSTP					
A20	3020	X 0 0 3					
858		IF (ID.EU.1) GO TO 162 IF (IMEST.EO.2) GO TO 162 IF (IMEST.EO.2).AND (ID.EO.2)) WRITE(Z.1570) IF ((IMEST.EO.2).AND.(ID.EO.3)) WRITE(Z.15AO) WRITE(Z.18AO)	)) WRITE (2.1570)				
830		IF ((1PEST.ED.*).AND.(1D.ED.2)) WRITT.(Z.1550) IF ((1PEST.ED.2).AND.(1D.ED.3)) WRITE(Z.1585) IF (1D.ED.2) WRITE(Z.1540) (ISCHEME(JF).ISTRAGY(JF).SUMCNST(JF). ISUMAINI(JF).SUMALL(JF).JF=1.JD) IF (1D.ED.3) WRITE(Z.1590) (JF.ISCHEME(JF).SUMALL(JF).JF=1.JD)	2) WRITE (2,1550) 3) WRITE (2,1585) 5CHEME (JF) • ISTRAGY ( 10) • ISCHEME (JF) • SÜMAL	JF) • SUMCNST (JF) • L'(JF) • JF=1 • JD)			
935	2	60 TO 220 IF (ID-EQ.2) WRITE (Z.1570) LLLAF=0 DO 210 JF=1.JD					
6							
845	85	CONTINUE IF (LAD-E0.2) GO TO 224 IF (LO-E0.3).A.(ISCHEME(JF).GT.])) GO TO 224 IF (IO.E0.2) WRITE(Z.1540) ISCHEME(JF).ISTRAGY(JF).SUMCNST(JF). IF (IO.E0.2) WRITE(Z.1540) ISCHEME(JF).SUMALILJF). IF (IO.E0.2) WRITE(Z.1540).JF.ISCHEME(JF).SUMALILJF)	.61.11) 60 10 224 SCHEME (JF) .15TRAGY	JF) +SUMCNST (JF) +			
950	554	60 TO 210 LLLAP=LLLAP+1					

LLLAP=LLLAP+1 JCOMHILLAP)=JF CONTINUE WRITE(7,1900) IF(ID-E0+2) WRITE(Z+1550)

PAGE 16		LARGE AS THE MINIMUM SPECIFIED FOR THAT DESCRIPTOM. LARGE AS THE MINIMUM SPECIFIED FOR THAT DESCRIPTOR. BRANCH COMPUTED 60 TO STATEMENT.	*E^1.									493 495									
13.54.00		UM SPECIFIUM SPECIFI TO STATER	STATE				786	3				311	248								159
11/20/60		LARGE AS THE MINIMUM SPECIFIED FA LARGE AS THE MINIMUM SPECIFIED FA BRANCH COMPUTED GO TO STATEMENT. BRANCH COMPUTED GO TO STATEMENT.	COMPUTED GO		940	265	784	}			11.0	310	946		408			583			DEF INED
420	NST (JF) •				35.8		775	277	431	578	242640	2+309	527	*0.	396			582			184
FTN 4.6.420	GV (JF) +SUMC MALL (JF) UMALL (JF) +J	DESCRIPTOR SHOULD BE AS 1 DESCRIPTOR SHOULD BE AS EFFICIENT THAN A 2 OR 3	A A A A A A A A A A A A A A A A A A A		356		174	770	341	DEF INED	319	4*308	525	103	376	000	333	DEFINED	583	585	761
	EME (JF) • ISTRAL	SCRIPTOR SCRIPTOR FICIENT TE	A I CIE L		1110	47	22	192	16	579	47	305	264	681	38	28	* "	586	18	18	22
OPT=0 ROUND=*/ TRACE	5) 1) 15CHEME   0) JF.1SCHE 6Y(JF).DSH	PS TON	BE MORE EI		9330	REFS	REFS	DEFINED	REFS	REFS	REFS	298	489	DEFINED	REFS	REFS	KET S	REFS	REFS	REFS	REFS
OPT=0 ROUR	IF (ID.FO.3) WRITE(2.1585)  00 212 JT=1.cLcLap  JF=JCOMM(JT)  IF (ID.E0.2) WRITE(2.1540) ISCHEME(JF).ISTRAGY(JF).SUMCNST(JF).  IF (ID.E0.2) WRITE(2.1590) JF.ISCHEME(JF).SUMALL(JF)  IF (ID.E0.3) WRITE(2.1590) JF.ISCHEME(JF).SUMALL(JF)  GONTINUE  GO TO 220  WRITE(7.1530)  WRITE(7.1520) (JF.ISTRAGY(JF).DSMAINT(JF).SUMALL(JF).JF=1.JD)  CONTINUE  END	DIAGNOSIS OF PROBLEM ELD WIDTH OF A CONVERSION ELD WIDTH OF A CONVERSION I E STATEMENT MAY HE MORE I E STATEMENT HAY HE MORE	ATEMENI MAY	ENCES	RELOCATION	WES	нВГК		AHBK		WES	CSTBA			KL2	MIXBLK	TEN	150	CUSR	CUSA	DANBLK
74/74	1F (1D. EQ. 3) WRITE DO 212 JT=1.LLAP JF=JCOMH(JT) 1F (1D. EQ. 2) WRITE 1F (1D. EQ. 3) WRITE GOT 220 WRITE (7.1530) WRITE (7.1530) WRITE (7.1520) (JF CONTINUE	DIAG FIELD AN IF	<u> </u>	HEFERENCES	RE	ARHAY	ARNAY				APPAY	4 1 1 1			ARRAY	ANHAN	AHHA				
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420	265	734	742		2.148	908			539	094	444	•	010	806	812	815	271	308	644	701	281	199	DEF INED	244	DEF INED	575	264	747	6.80	346	433	520	676	687	050				-	597	703	,	648
FTN 4.6.420	765	733	908	457	566	DEF INED	:		352	457	457	0541550	DEFINED	DEFINED	DEFINED	DEF INED	2*65	305	2050	693	270	550	128	146	265	270	558	210	DEF INED	329	428	519	675	997	967	352		,	354	594	974		640
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78 19	PEAL	PEAL	PE AL	PEAL	PEAL	PF AL	PEAL	PEAL	DE AL	PEAL	PE AL	DEAL	PEAL	PEAL	PFAL	REAL	INTEGER						INTEGER	INTEGE	INTEGER	INTEGER	TNIEGED	INTEGER	INTEGER	TNTEGER						INTEGER	INTEGER	INTEGER	INTEGER	TATEGER	Taricach and the same	INTEGER	INIEGEN
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PAGE		432	550							635		326			286						900	333									680	767			595								636	471		448	437	545	508	145	735	66	
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FTN 4.6.420		569 DEFINED	526	545	256	35.2	842	DEF INED	628	049	639	317	363	532	293	DEF INED	304	.03	101	OET INCO	DET INED	004	244	S L S S S S S S S S S S S S S S S S S S	280	DEE INE	291	DEFINED	4.308	304	472	488	470	DEF INED	539		DEF INED	535	5.239	DEF INED	5.269	969	252	654	OFF INFO	5.430	675	506	581	757	76737	739	
		539	525	524	100	100	623	624	627	637	638	54	07	388	n	298	294	386	000	004.0	100	244	682	212	270	206	284	283	305	301	471	485	DEFINED	164	537	510	510	533	537	536	295	969	27	549	DEF INCU	437	659	508	295	725	125	738	124
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_	NDEX 13.3	NGTH 1000	-4 0	70,7	176	, N-E 6	530	813 200 40	5 240 240 LENGT
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PROGRAM	LABEL 223 212	COMMON ALOCKS ARBK CSTBK CUSR CUSR	DOBK DANALK	FLAG FBLK LCY	LYTO WANLK WIXBLK	NANLK NANLK NGLK	PESTR PESTR REMN RLI	PL2 R70L00 SCAN3 S65WP2 THK9K	TSV 6 TTL 35 WES 240 STATISTICS PROSPAM LENGTH CM LARELED COMMON LENGTH
	100PS 3705 4002 4045	COMMON							STATIST PP036 CM L4

SUBROUTINF EXCOSTS

DIMENSION SAVER(50.2)

COMMON /TWPL/ IND.SWID.TWOCL.JACK

COMMON /TWPL/ IND.SWID.TWOCL.JACK

COMMON /TROV/THCK.ERCOST.PSTED.FILPRCE.CUTPRCE.NERTH

COMMON / ZONES/ZONSTEP (9) *APWID (9) *APRSTR (9.3) *APREND (9.3) *NAPR.APT

10T

IF (NERTH.ED.0) GO TO 2

IF (NERTH.ED.2) GO TO 2

IF (NERTH.ED.2)

RO 50 IK.3.1.NERTH

50 IF (APS.SAVER(IK.1)-THCK).LT.0.1) GO TO 55

55 ERCOST=SAVER(IK.2)

10

REWIND 2

15

READ(2) A IFL=EOF(2) IF(IFL-NE.0)GO TO 10

20

52

0

430

30

35

10 CUTESTECUTE CONTROLLE STEED 0,

45

SYMBOLIC REFERENCE MAP (R=3)

HEFERENCES ENTRY POINTS
2 EXCOST6

DEF LINE

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PAGE	25 45	15 52	£ \$		
13.54.00	18 DEFINED	29 11 29 29 29 29 29 29 29 29 29 29 29 29 29	33 35		2 TWOCL (1)
11/20/60	DEF INEO	DEFINED DEFINED 15	9 DEFINED 33		~
420	37 24 29	DEFINED 37 37 37 37 37 37 37 37 37 37 37 0EFINED 19	8 12 22 DEFINED		â
FTN 4.6-420	22 31 0EF INEO 28	37 29 34 31 30 30 30 66 INEO 12	24 2 10 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	91	1 SWID (1
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D=+/ TRACE	3333333 555555 5555555		DETECTOR REPS REFS REFS REFS REFS REFS REFS REFS REF	18 35 35 REFERENCES 10 CES 27	PROPERTIES OPT LENGTH)
OPT=0 ROUND=+/ TRACE	RELOCATION ZONES ZONES ZONES ZONES ZONES ZONES	15V 15V 17M PL 17M PL	20NES 15V 15V 17MPL 15V 20NES	READS WRITES REFERENCES 19 DEF LINE RE 7 20 20 9 10 13	LENGTH 109 BIAS NAME ( 0 IND (1)
74/74	RELI ARPAY ARPAY ARRAY		ARRAY ARRAY	ARGS 1 1 INTRIN 0 DEF LINE 17 17 17 18 18 19 10 10 11 12 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	38 FROM-TO 9 10 MEMBERS -
INE EXCOST6	SN TYPE PEAL PEAL PEAL PEAL PEAL PEAL	PEAL PEAL PEAL PEAL REAL INTEGER INTEGER INTEGER	INTEGER INTEGER PEAL PEAL PEAL PEAL PEAL	MODE UNFMT FMT TYPE REAL S FMT	INDEX INDEX LENGTH
SURPOUTINE	HSTR TOT TOT	CUTCST CUTPRCE ERCOST FILCST FILC FILCST IFL IFL IND	NAPH NERTH PSTEP SWID THCK TWOCL VOL	8 4	200 LABEL 50 9LOCKS TMPL
	VARIARES 262 A 253 APR 273 APR 111 APR 111 APR 261 R 254 CU	25.5 2.5 2.5 2.5 2.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	011 02 03 03 04 04 04 04 04 04 04 04 04 04 04 04 04	FILE NAMES TABE2 TABE2 EXTENNALS ENTENENT ABS STATEWENT LAB 40 10 10 10 24 55 132 54 137 100	172 LOOPS 12 COMMON

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KDFLAG=1
DRNCST=0.0
WATTE(4.1500)
FORMAT(" DRNAGE6~ NO DRAINAGE REQUIRED")
WATTE(12.2000) JACK-DRNCST
FORMAT(" DRNAGENO DACK-DRNCST
FORMAT(TA.12.112."NO DRAINAGE REQUIRED",192.1H$.F9.2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       DIP=FLOAT(IDGWTO)
DIP=FLOAT(IDIPO)
EPEPD
DL=DLO
PEPM=PEHMO
TBAS=THOK-TTHICK
H3=H30+IBAS
IF (LENGIHO-EO.0)LENGIHO=IFIX(ALOS+.001)
LENGIH-ENGIHO
CAVCST-CAVCSTO
FLUCST=TLCSTO
PIPECST=PLCSTO
PIPECST=PLCSTO
PIPECST=PLCSTO
OUT=NOUTO
LOUT=NOUTO
LOUT=NOUTO
IC (13TE-FO.5).0R. (IBTE.EO.6))FDE=FDEF
T=THCK
IF (13TE-FO.6) FDE-FO.6)
IF (13TE-FO.6) FDE-FO.6) FDE-FO.6)
IF (13TE-FO.6) FDE-FO.6) FDE-FO.6)
IF (13TE-FO.6) FDE-FO.6) FDE-FO.6)
IF (13TE-FO.6) FDE-FO.6) FDE-F
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IF (HPF-LT-12.0)HPF=12.0
GO TO 1
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60 TO 4
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KD=0
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| F(0)TP.GE.(T*12.0))GO TO 50 DTP=1*12.0 GO TO 50 OTPT=HZWT+T

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25

KD=1

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Suar	ROUTINE	SUBROUTINE DRNAGER	74/74	0-1-O	OPT=0 HOUND=0/ TRACE	TRACE	FTN 4.6+420	/60	11/20	09/02/77 13.54.00	PAGE	•
511		DRNCST=0.0 WRITE(12.9000)JACK.DRNCST 9000 FORMI(16.12.112.**HAD KD CODE"T92.1H\$.F9.2)	DRNCST=0.0 WRITE (12.9000) JACK.DFNCST FORWAT (16.12.112."HAD KD	JACK.	DANCST AD KD COD	E"T92•1	145.F9.2)					
120		71 WPITE ( 6000 FORMAT 1173,F3	112.6000) T(T6.12.1 3.0.T82.1	JACK. 12."U HS.FS	01P.2.R.N SER HAS S.	100T, FC1	71 WRITE(12,6000) JACK,DTP.2*R.NOUT,FCTR.CSTLF.DRNCST 6000 FORWITT6.12.712 "USER HAS SET DEPTH'.T40.F5.2.153.F4.1.164.12. 173.F3.0.782.1H%.F5.2.T92.1H%.F9.2.71104."DRAINAGE NOT REQUIRED") RFIJHY	4.12. IREO")				
125		72 WRITE ( 7000 FORMAT 1173.F3	112.7000) VT (T6.12.1 3.0.782.1	JACK. 12."U H\$.FS	OTP.2.R.N SER HAS S	10UT, FC1	72 WRITE(12.7000) JACK.DIP.2°R.NOUT.FCTR.CSTLF.DRNCST 7000 FORMAT(16.12.T12."USE? HAS SET DEPTH".T40.F5.2.T53.F4.1.T64.12. 1773.F3.0.T82.1H\$.F5.2.T92.1H\$.F9.2.T104,"FROST SHOULD CONTROL") RETIJR?1	4•12• ROL")				
130		73 WRITE(1 8000 FORMAT 1173-F3. 2") RETURN END	11. 12. 4000) 17 (16. 12. 1 3.0. 182. 1	JACK. 12."U	01P-2*R.N SER HAS S .2.192.1H	1001-FC	73 WRITE(12,4000)JACK.DTP.2*R.NOUT,FCTR.CSTLF.DRNCST 8000 FORWAT(16.12.T12."USER HAS SET DEPTH".T40.F5.2.T53.F4.1.T64.12. 1773.F3.0.T82.1H\$.F5.2.T92.1H\$.F9.2.T104."WATERTABLE SHOULD CONTROL 2") RETURN END	CONTROL				

CARO NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

AN IF STATEMENT MAY BE MORE EFFICIENT THAN A 2 OR 3 BRANCH COMPUTED GO TO STATEMENT.

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VCE 5	103	RELOCATION	AKBLK	AKBLK	SA	AKBLK	BSALK		DRNBLKZ			150					DRNBLK2	DANBLK	DRNBLK				
IAP (R=3) HEFERENCES	42	REL	ARHAY																				
SYMBOLIC REFERENCE MAP (R=3)	-	TYPE	PEAL	PEAL	REAL	PEAL	PEAL	PEAL	PEAL	PEAL		PEAL	PEAL	PEAL	PEAL		REAL	PEAL	PEAL	!		PEAL	
ENTRY POINTS	DAMAGE	VARIAHLES SN	AKEF	AKY	ALOS	916	PTE	CAVCST	CAVCSTO	CSTLF		CUTPRCE	LASO	910	טר		000	DEAIN	DHACST			010	
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FTN 4.6.420	1 DRAIN (1) 1 IDIPO (1) 4 PERMO (1) 7 CAVCSTO(1) 10 SLO (1) 13 LOUTO (1) 1 WOS (1) 1 ERCOST (1) 4 FILPRCE(1) 1 SWID (1)	
74/74 OPT=0 HOUND=4/ TRACE	MEMBERS - HIAS NAME (LENGTH)  0 DRNCST (1) 0 DRNCST (1) 1 DGM (1) 3 DL0 (1) 5 DLW (1) 9 PIPCSTO(1) 9 PIPCSTO(1) 0 ALOS (1) 12 NOUTO (1) 0 THCK (1) 3 CUTPRCE (1) 13 JACK (1)	9 551 3 47
74/74	MENALPS	10478 578
SUBROUTINE DRNAGES	PLOCKS LENGTH PSHLK2 DANALK PANHLK2 SA TSV 6	ATISTICS PRUGPAM LENGTH CM LAMELED COMMON LENGTH
	COMMO	STATISTICS PROGRAM CH LAREL

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CALL MIGITO (XHEPAIR, XSLJNT, XRESLAB, XCLEAN, XDISTOT, XTOTAL, KK, *THKK, MMMM . ISTAHT, IEND, TMO)
60 TO 3700
3705 IF (IEND, EO, MAXYK) 60TO 3707
SUBMOUTINE PREVENZITHO.STRT.NSTRT.DTOTAL.MMMM.TT.ITY)
INTEGER INDXRE(35)
DIMENSION TOTAL(35)
DIMENSION TOTAL(35)
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IF (15KIP-EQ.) GO TO 100
DO INT I =1.35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          60T0 1449

60T0 1449

1610 1549

16.00 1

CALL FLEX92(TTSLCT,TTCRPT,TCLNDRN,TCLNSWP,TTOT,TDTOT,

60 TO 3701

16.1010XHF(1),E0.2) G0 TO 3704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L=1-1
IF (IMDAFF(L),EQ.1.0P.ITV.EQ.1)ICHECK=1
IF (ICHECK.EQ.1.4.INDXFF(L).NE.3) TRKK=TRKK+TMO(KK.2)
IF (IMDXFF(L).NE.3) KK=KK+1
                                                                                                                                                                                                                                                                                                                                                                         INDAMP(JOL)=2
DO SO2 J=1.NSTRT
INDAMP(INT(STRT(J)+.01))=INT(TMO(J+1)+.01)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                IF (1.6F. MAXYH) GO TO 3706
GOTO 3702
3704 [STAPT=[END+]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IF (1.6E.MAXYR) GOTO 3705
                                                                                                                                                                                                                                                                                                                                                                                                                              THKK=TT
IF(ITY=EQ=2) TRKK=0.
IEND=0
                                                                                                                                                                                                    TTGLCT=0.
TTGLNDWN=0.
TCLNSWP=0.
TCLNSPP=0.
TTOT=0.
TTOT=0.
XREPAIR=0.
XRECAR=0.
XCLNT=0.
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XCLNT=0.
                                                                                                                                                                          MAXYH=JOL
ICHECK=0
                                                                                                                                                               KK=1
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OPT=0 HOUND=+/ TRACE	G010 3701 IF(IEND.EO.MAXYH) G010 3707 G010 3704 T0714 S=T771***********************************			REFS	REFS 49	REFS	DEF INED	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	REFS	RFFS	REFS	REFS	REFS	REFS	KEFS	REFS	REFS RFFS	REFS
0PT=0 HOU	6010 3701 IF (IEND.ED.MAXYH) 6010 3707 6010 3704 TOTALS=TTOTATOTAL WRITE (A.2700) MMMM.TOTALS.DT. WRITE (A.2700) MMMM.TOTALS.DT. FORMATION (/////SX.*TOTAL MAIN TAX ************************************		HEFENCES AB	RELOCATION F.P.				NUXRF	PRVNTI	0		SCAN3		F. P.	a a			r. p.	=		۴.٩.				
74/74	6010 3701  IF (IEND.ED.MAXYH) GO 6010 3704  TOTALS=TOTAXTOTAL  WRITE (A.2700)MMMM.TO FORMATI/////5%.*TOT  272.**********************************	4AP (R=3)	HEFER AB	æ				ARRAY							ABUAY			ARHAY	ANNA						
E PREVENZ	3706 IF (IEW) 5070 3 3707 TOTALS 7707 FOWNITE( 2700 FOWNITE( 2700 FOWNITE( 100 CONTIN		DEF LINE		INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	1NTEGE9	INTEGER PEAL	DE AL	PF AL	PEAL	PEAL	PE AL	PEAL	PFAL	DEAL	PEAL	PEAL
SUBROUTINE PREVENS	e in	SYMBOLIC REFEWENCE	POINTS PREVENZ	STOTAL SN	_	1CHECK	IEND	INDXRF	ISKIP	ISTART		Joh xx	9		1915	2 0			TOTALS			1011			XPEPAIR XPESLAH
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==/ TRACE	REFS	ç		DEF LINE REFERENCES 2*29	5.5	59 PROPERTIES	INSTACK	(LENGTH) (35) (1) (1) (35)	
74/74 OPT=0 HOUND=#/ TRACE	HELOCATION	WRITES	REFERENCES 45 54		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 50 57 57	78	MEMMEDS - BIAS NAME (LENGTH) 0 INDXRF (35) 0 ISKIP (1) 0 JOL (1) 0 TOTAL (35)	3 244
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DIMENSION REPELLIG.2) REPRGIGG.2)
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SUBROUTINE FLEXBETTSECT.TTCRPT.TCLNDRN.TCLNSWP.TTOT.TDTOT.
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IF((ITY.EQ.2)) OR.(IREST.EG.2)) JYR=100

IF(ITY.EG.2) IJ=1

IF(ITY.EG.2) SEALYR(1)=FRSTSL

INDX#F(JDL)=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INLUMP=3.45
SITE(1)=11HPATCHING
SITE(2)=1HOTHER
SITE(3)=11HOTHER
SITE(4)=11H
SITE(4)=11H
SITE(5)=11HMAINTENANCE
SITE(5)=11HMENAINS
WHITE(1,780)
1J=0
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SLCOAT (SEALYR(I)) = SLCT * APEA

151

1F(1J.LT.1) GOTO 1702 00 151 1=1.1J (I.LE.IFND) 60T0 17

302

1702 NO 1701 1=15TAHT.1END IF (INDXPF (1) .NE.3) ISTR1=1 CREPTCH (1) =CASL-AREA TYCKT=1TCHCT-SLCOAT(1) TYCKT=TTCHCT-CKEPTCH (1) CCL viden (1) =0 L=1-FT-A-1 IF (L-k. 0. (L-A)CYCLE) *-JCYCLE IF (JOL - (L-A)CYCLE) *-JCYCLE TYCHORN (1) CCLOAR (1) CCCLOAR (1) CCCCAAR (1) CCCAAR (1) CCCCAAR (	TAMT. IEND .NE.3) ISTRT=I							
L=I-ISTAT+1  IF (LAC-(L/JC)  IF (JAC-(L/JC)  TCLNONN=TCLND	1-SLC0AT(1)							
10-11/05 SIN 100	L=I-IST-1-1 TFL.EDLL-JCYCLE) *JCYCLE) CCLNDRN(I) =CLNDRN*AREA IF (JRL-LL/JCYCLE) *JCYCLE.LE.JCYCLE/2) CCLNDRN(I) =0. TCLNDRN*TCLNDRN*CCLNDRN(I)	CLNDRN(1) =CLNDR JCYCLE/2) CCLNDR	N*AREA N(I)=0.					
TCLNSMP=TCLNS FLXPAP=0 FLXMAN=0.	CCLMS#P(1)=CLMS#P#ARG#L TCLMS#P#PTCLMS#P#CCLNS#P(1) FLX#AM=0. IF(L.*GQ.(L/MFL)*NFL) FLXMAN=COSTF*AREA	COSTF*AREA						
IF (JS.GT. IFL) G IF (INT (WEPFL(JS IF (INT (PEPFL(JS COVI IN)E PATCH-PTCHOAMEA TOT=SLCUAT(I)+C	<pre>If L3.67.1FL) 60 T0 1900 If (INT(*EPFL(JS.1)*.001).E0.L) FLXPAR=REPFL(JS.2) If (INT(PPEFL(JS.1)*.001).E0.L) JS=JS.1 CO.1IN.E PATCH=PICH-PICH-AHEA PATCH-COST (I) *CHXPICH(I)*CCLNSWP(I) *PATCH</pre>	L) FLXPAR=REPFLL) JS=JS+1 NDRN(I)+CCLNSWP	(JS+2)					
TOT=TOT+FLXMAN+FLXMAN MPITE(R-1904) I-5LCOA *FLX-MAN+FLXMAN+TOT TOTAL(I)=TOT	TOT=TOT-FLXMan-FLXPAR WATE (A-, 1904)	KPTCH(1) .CCLNDR	N(I) • CCLNSW	P(I) .PATCH.				
DTOT=TOTX((1TRST)**])**] TDTOT=TUTOT*DTOT CONTINUE FORMAT(14.6.FX,F10.2)) FORMAT(14.7.FX,F10.2))	. TRST)							
FORMAT (14-8 (6X-F) 10-2)) FORMAT (2X-*101AL50-6X) FRETURN END	FORMAT (14.8 (67.7) FORMAT (21.8 (67.0) FORMAT (21.8 (67.7) FORMAT (21.8 (67.0) FORMAT	0.8%)						
SYMBOLIC REFERENCE MAP (R=3)								
NEF LINE REFERENCES	ENCES							
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0PT=0 ROL	PRELOCATION PREVAT PREVAT PREVAT	PRVNT DORK F.P.	NOXRE RESTH PAYNT F.P.	PAVNI SCAN3 RESTR TYPBK TYPBK F.P.	PREVITE PREVIT
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SCHROUTINE RIGIP (KREPAIR, XSLUNT, XRESLAB, XCLEAN, XDISTOT, XTOTAL, KK, PTRK, WHWM, ISTART, IEND, THO)

Openession total (35)

Dimension tille(3), PERG(10,2)

Dimension tille(3), PERGENT(25)

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TOTAL (NA)=HEPAIN+SL JNT+PESLAB+CLEAN
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./ TRACE	AN=COSTR+AI RG (KS+2) +RIGMAN+RI JNT+RESLAB	<b>4</b>			REFS	REFS	HEFS	REFS	REFS	REFS	REFS	REFS	REFS	UFF	REFS	AEFS	REFS	REFS	HEFS	DEF INED	REFS
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Lindow, Edward S

Systems approach to life cycle design of pavements.
- Champaign, IL; Construction Engineering Research
Laboratory; Springfield, VA; available from National
Technical Information Service, 1978.

3v.; 27 cm (Technical report - Construction Engin-

eering Research Laboratory; M-253)

Contents. v. 1, LIFE2 user's manual. v.2, LIFE2 system documentation. v.3, LIFE2 program listing.

1. Pavements-design and construction. 2. Pavements. I. Title. II. Series. U. S. Construction Engineering Research Laboratory. Technical report; M-253.

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